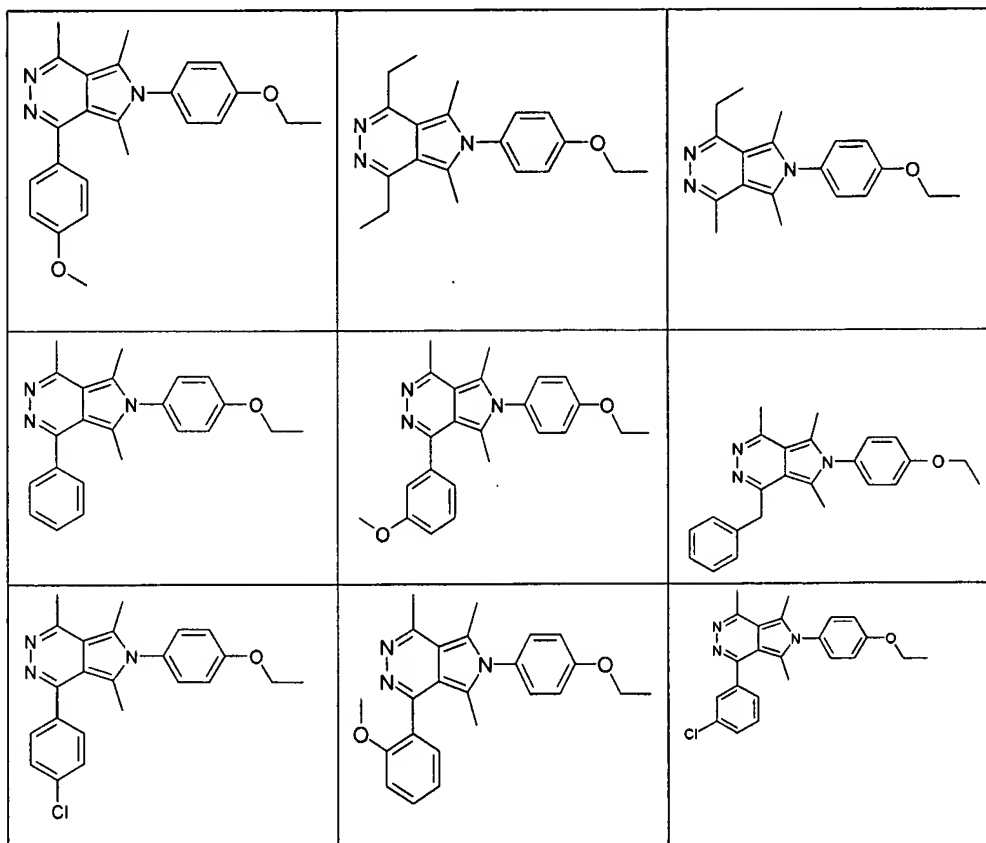


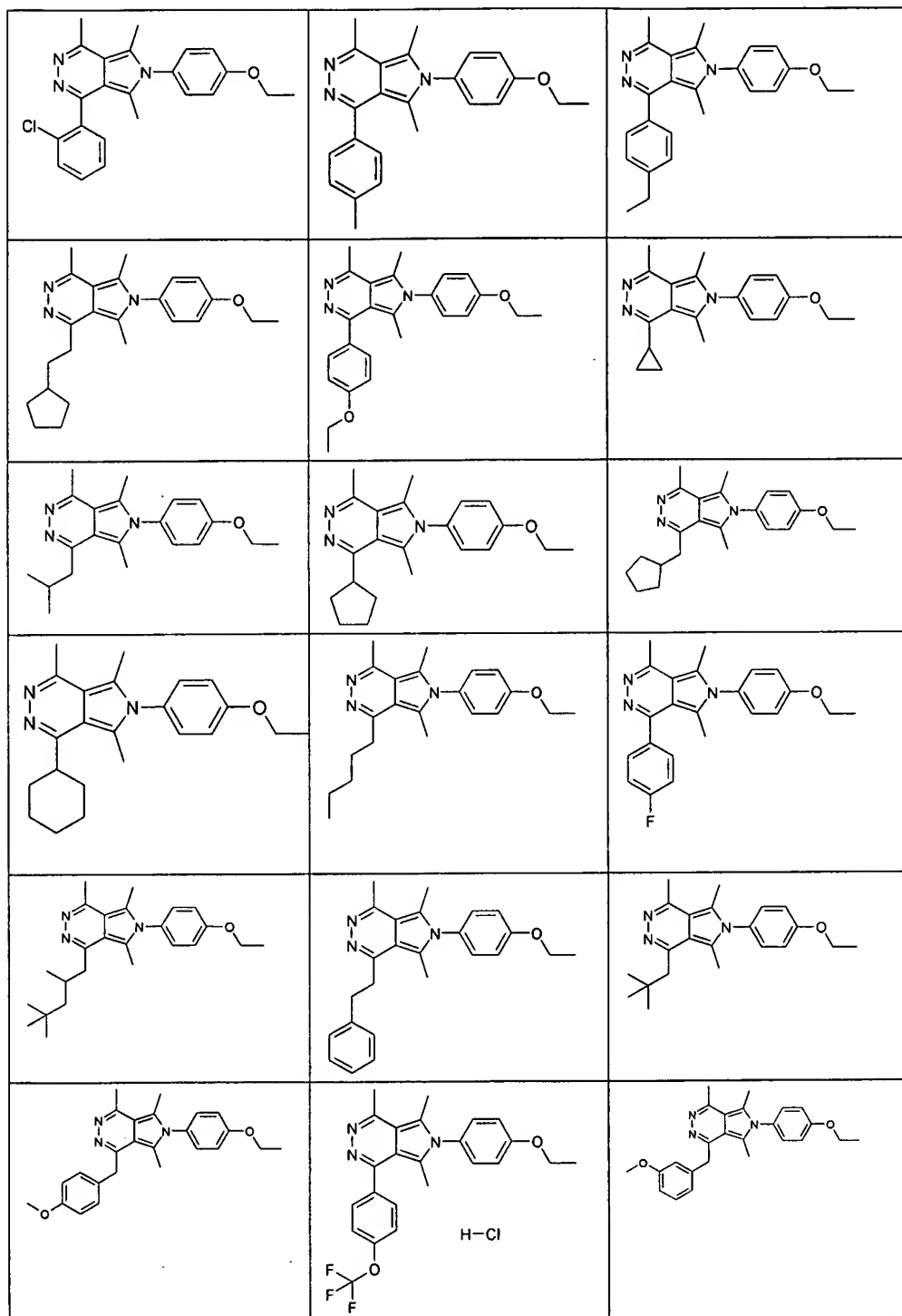
AMENDMENTS TO THE CLAIMS

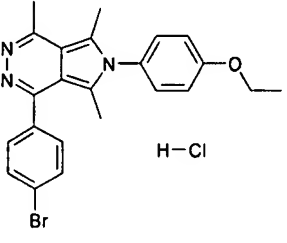
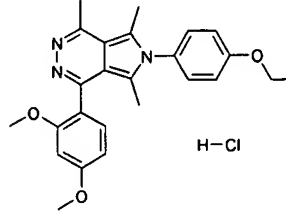
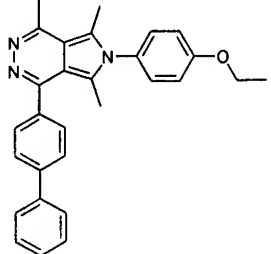
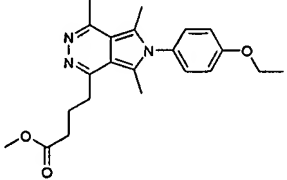
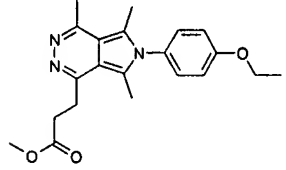
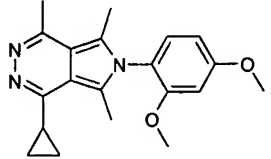
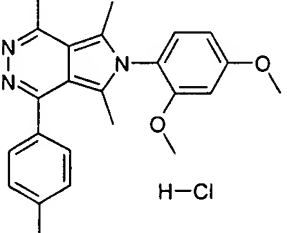
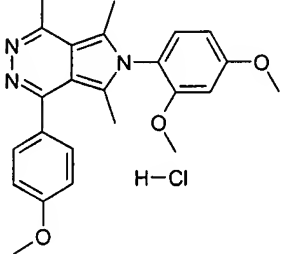
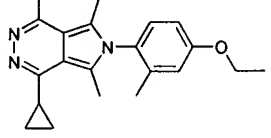
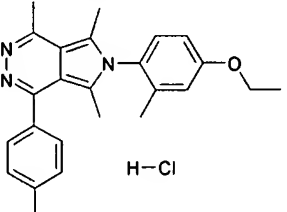
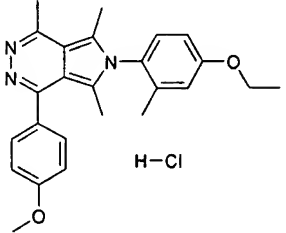
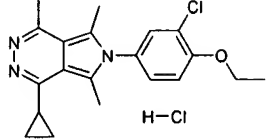
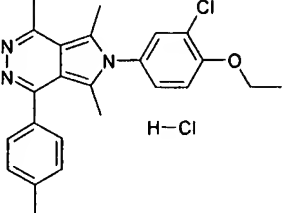
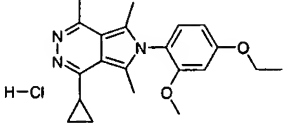
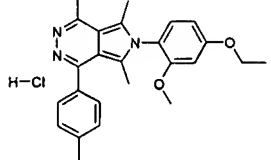
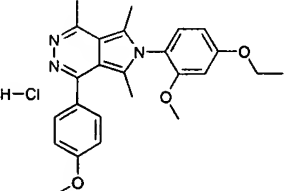
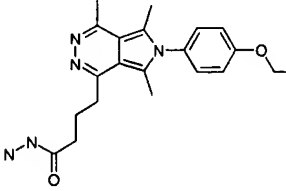
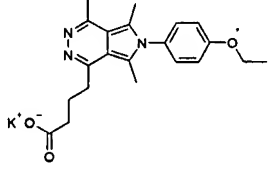
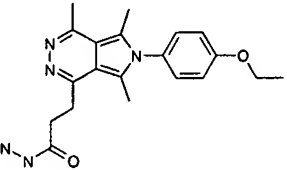
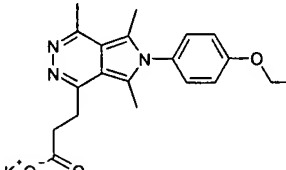
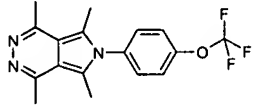
This listing of claims will replace all prior versions, and listing of claims in the application.

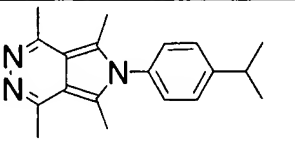
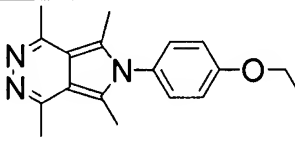
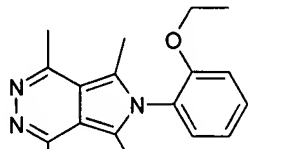
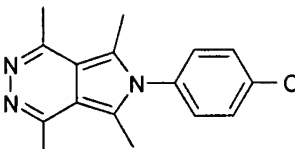
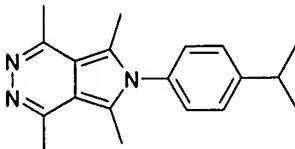
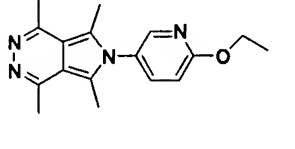
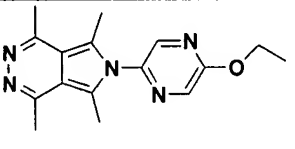
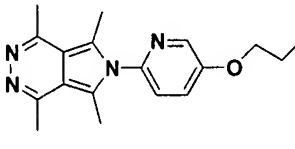
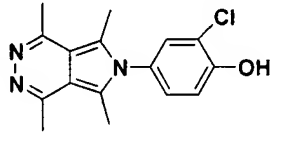
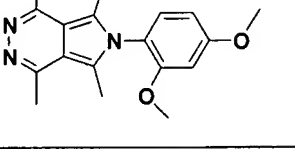
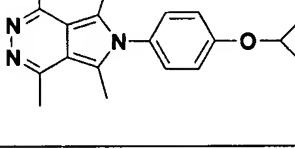
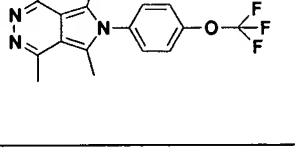
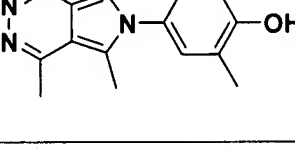
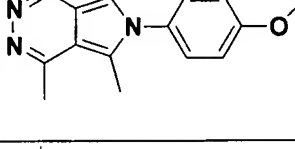
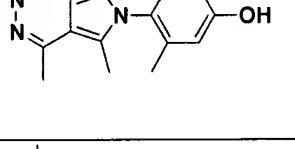
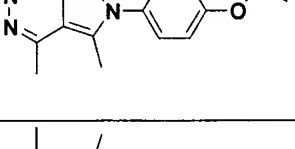
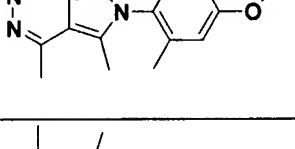
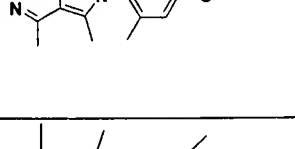
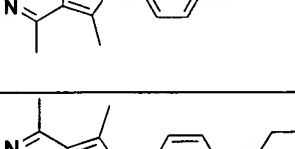
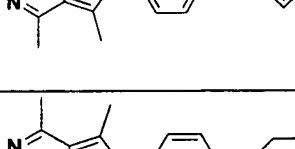
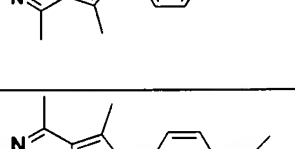
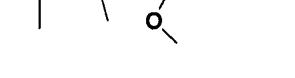
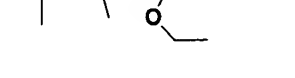
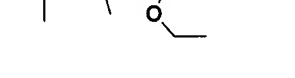
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2. Cancel.
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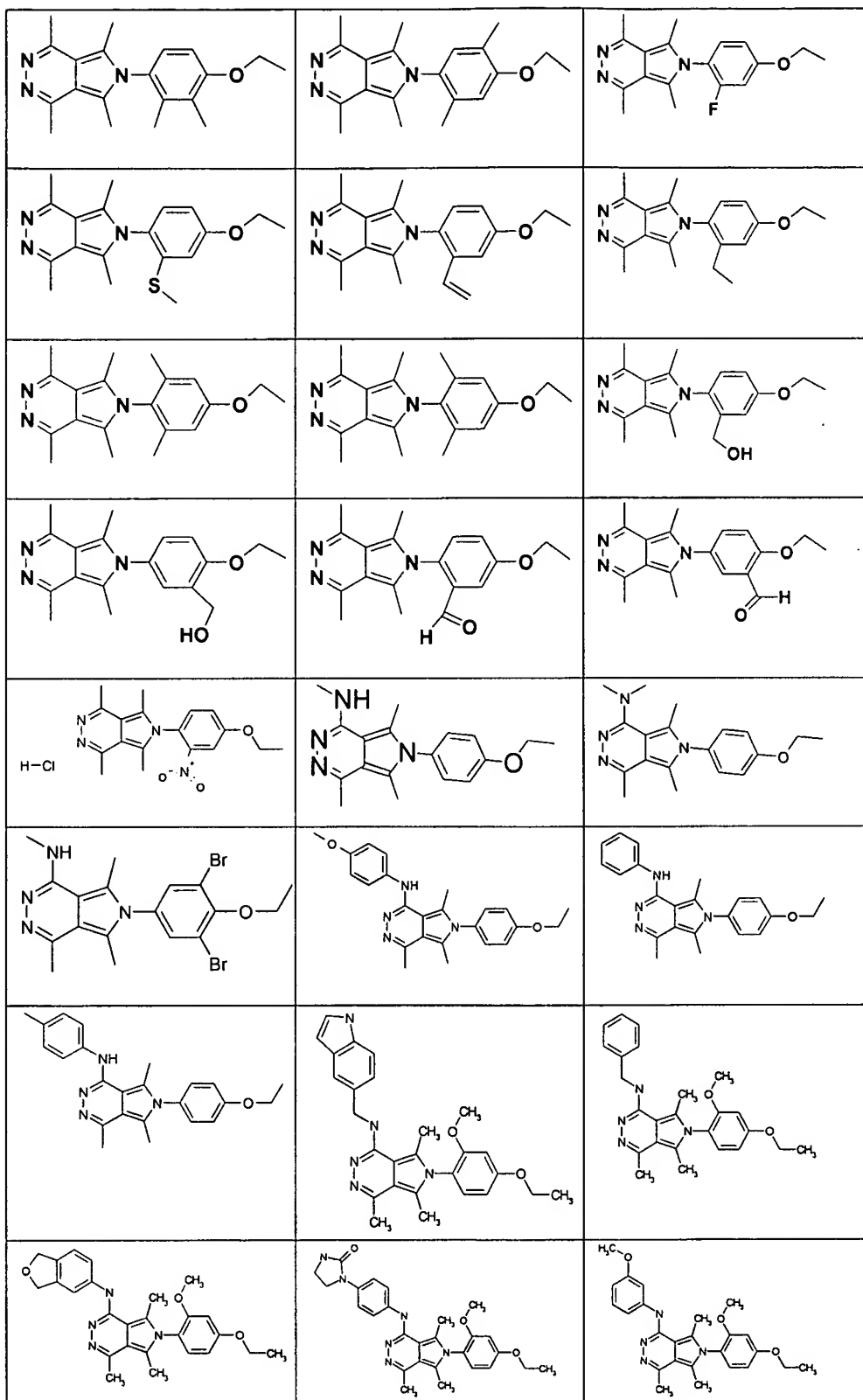
4(Currently Amended). A method of binding the $\alpha 2\delta$ subunit of voltage gated calcium channels comprising a step of administering to a patient in need thereof an effective amount of a compound represented by Formula (I) selected from: The method according to Claim 1, wherein the compound is selected from:

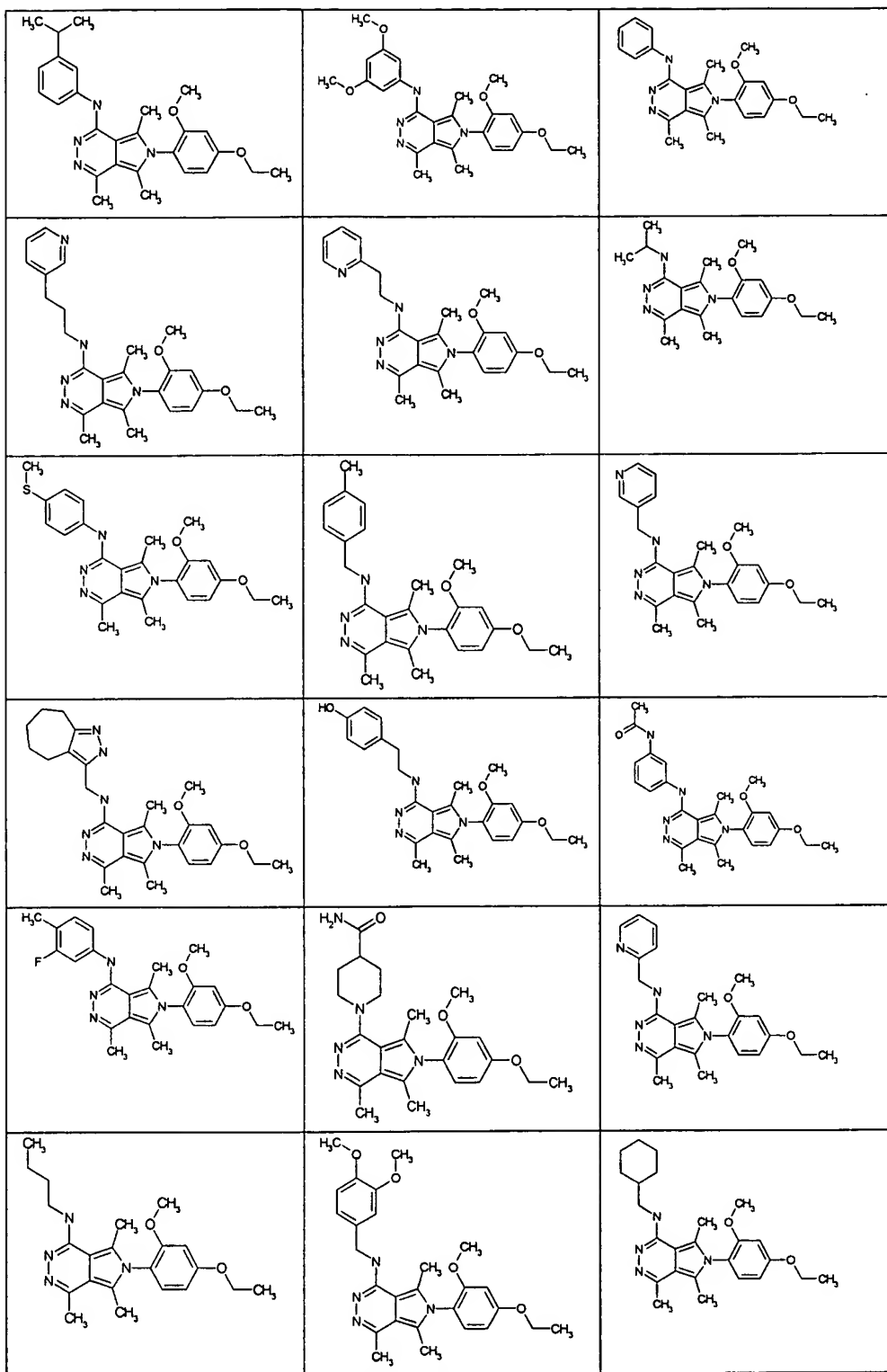


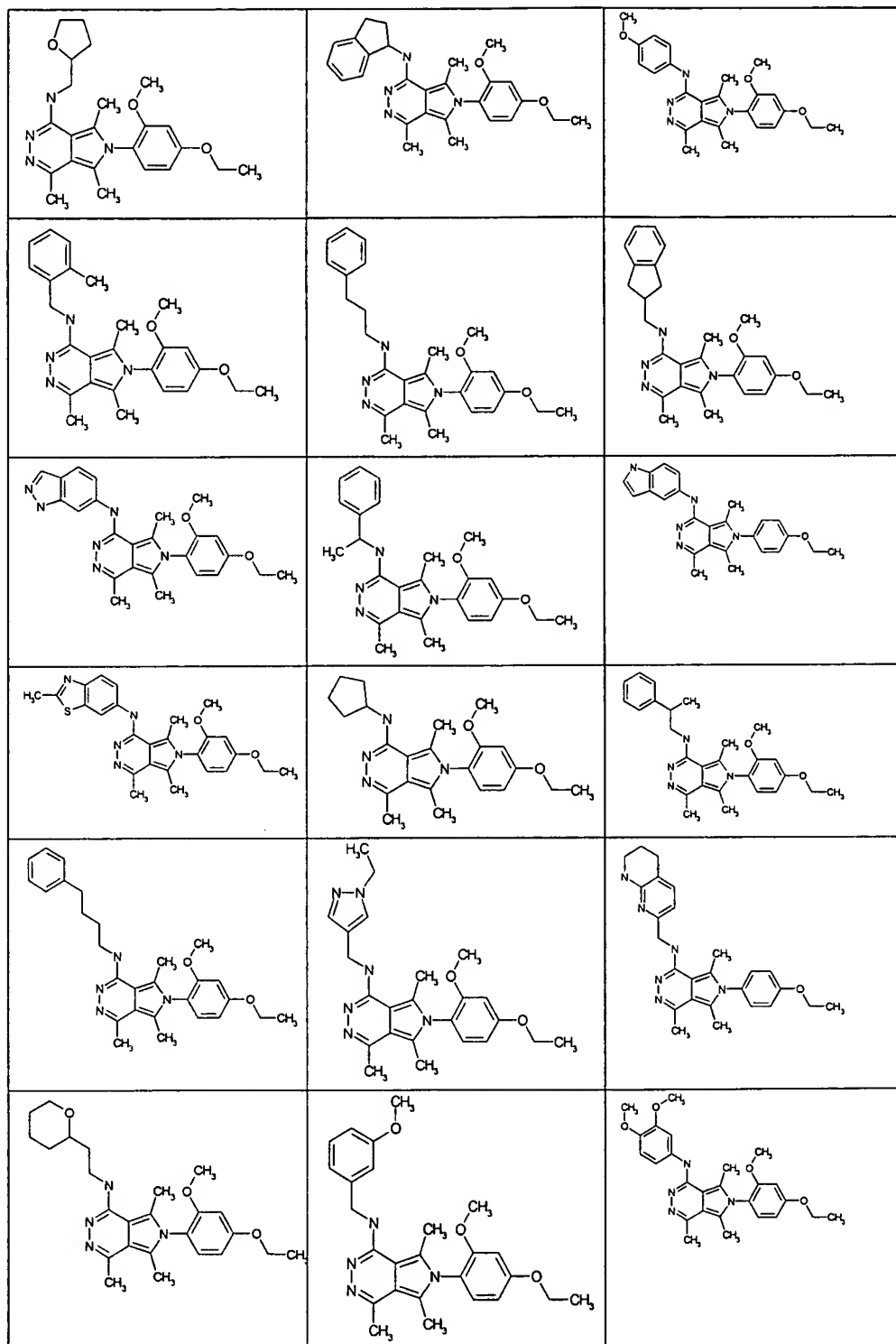


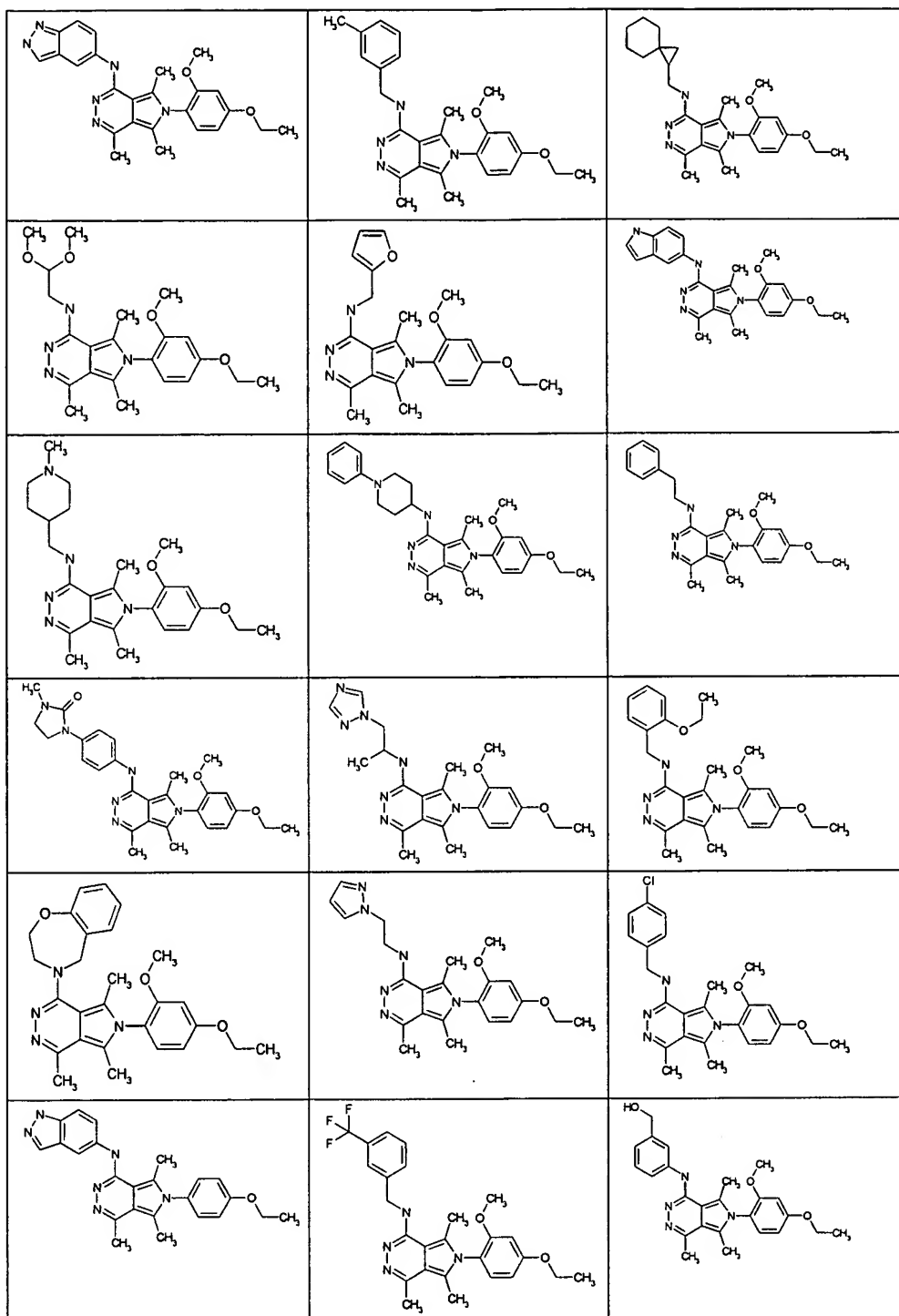
 H-Cl	 H-Cl	
		
 H-Cl	 H-Cl	
 H-Cl	 H-Cl	 H-Cl
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 H-Cl		
 H-Cl	 K ⁺ O ⁻	

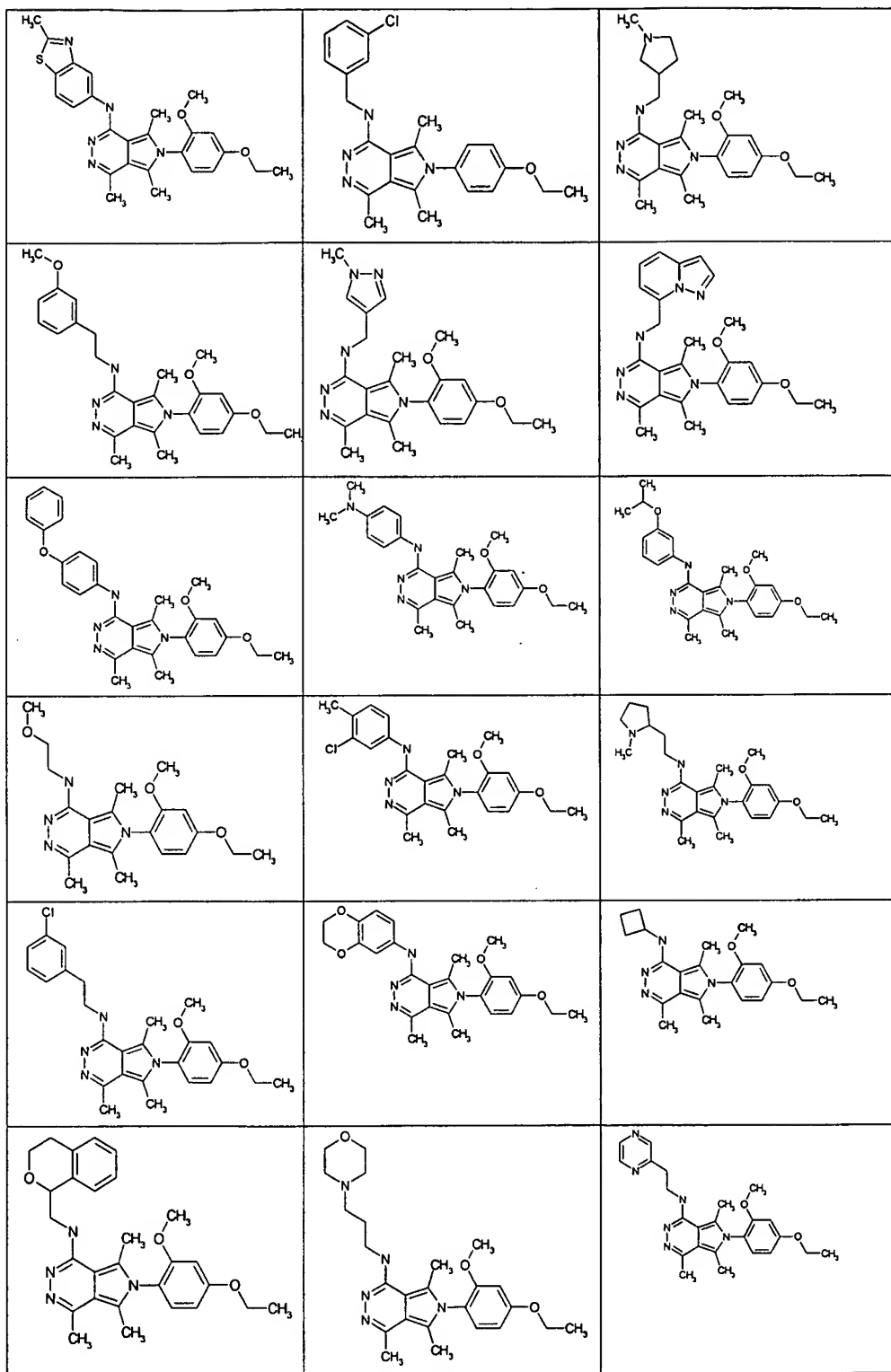
		
		
		
		
		
		
		
		

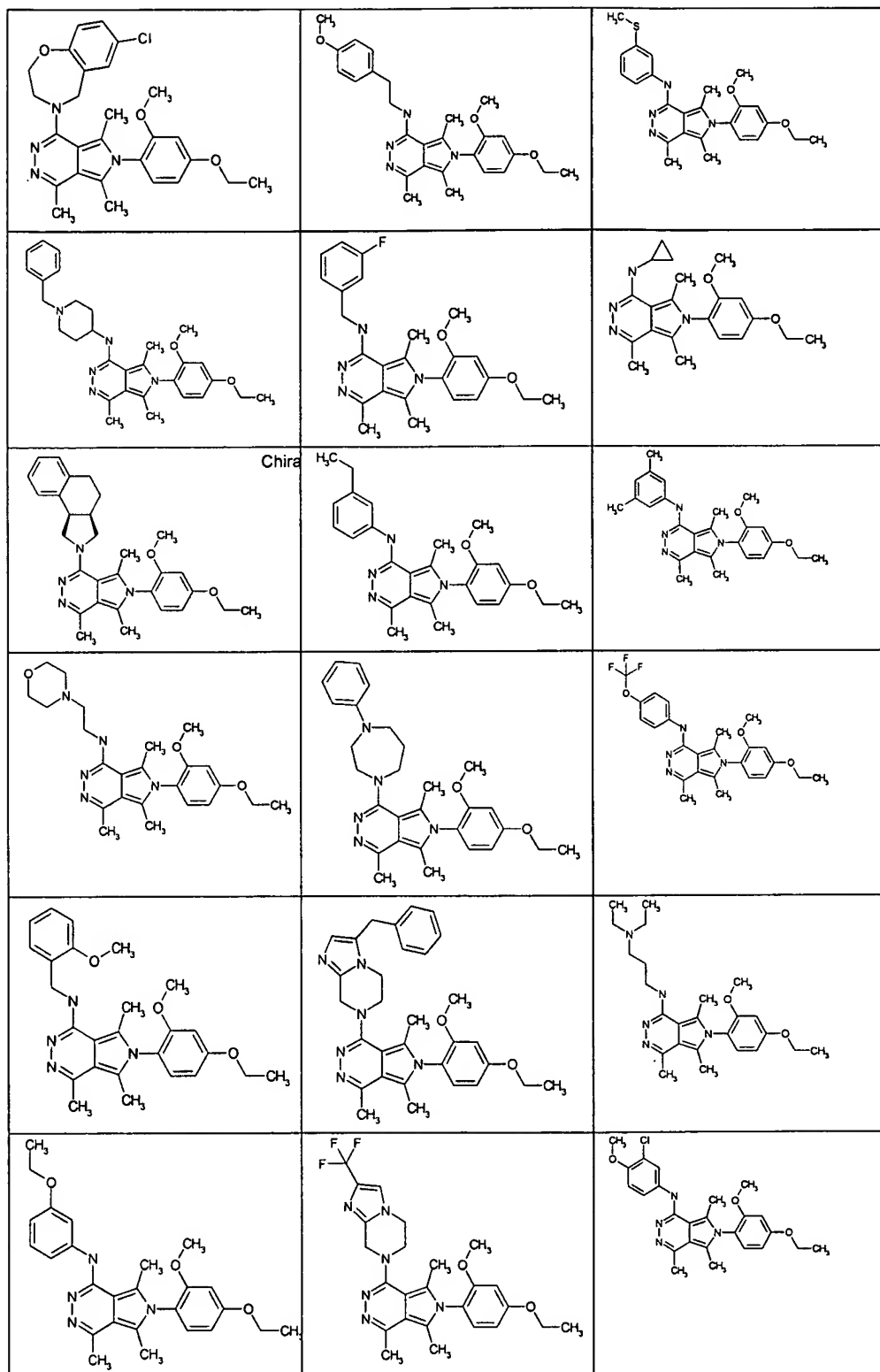


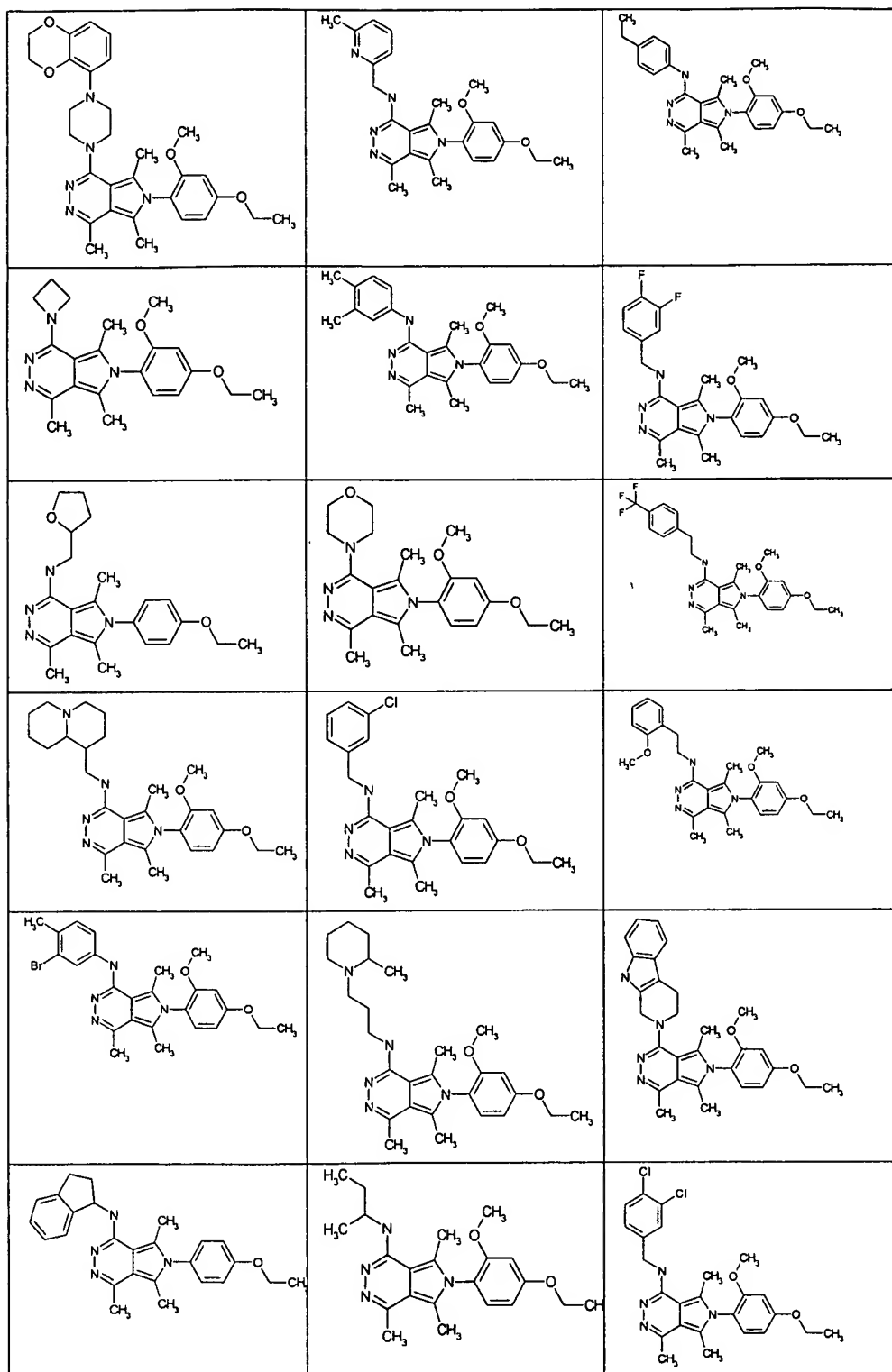


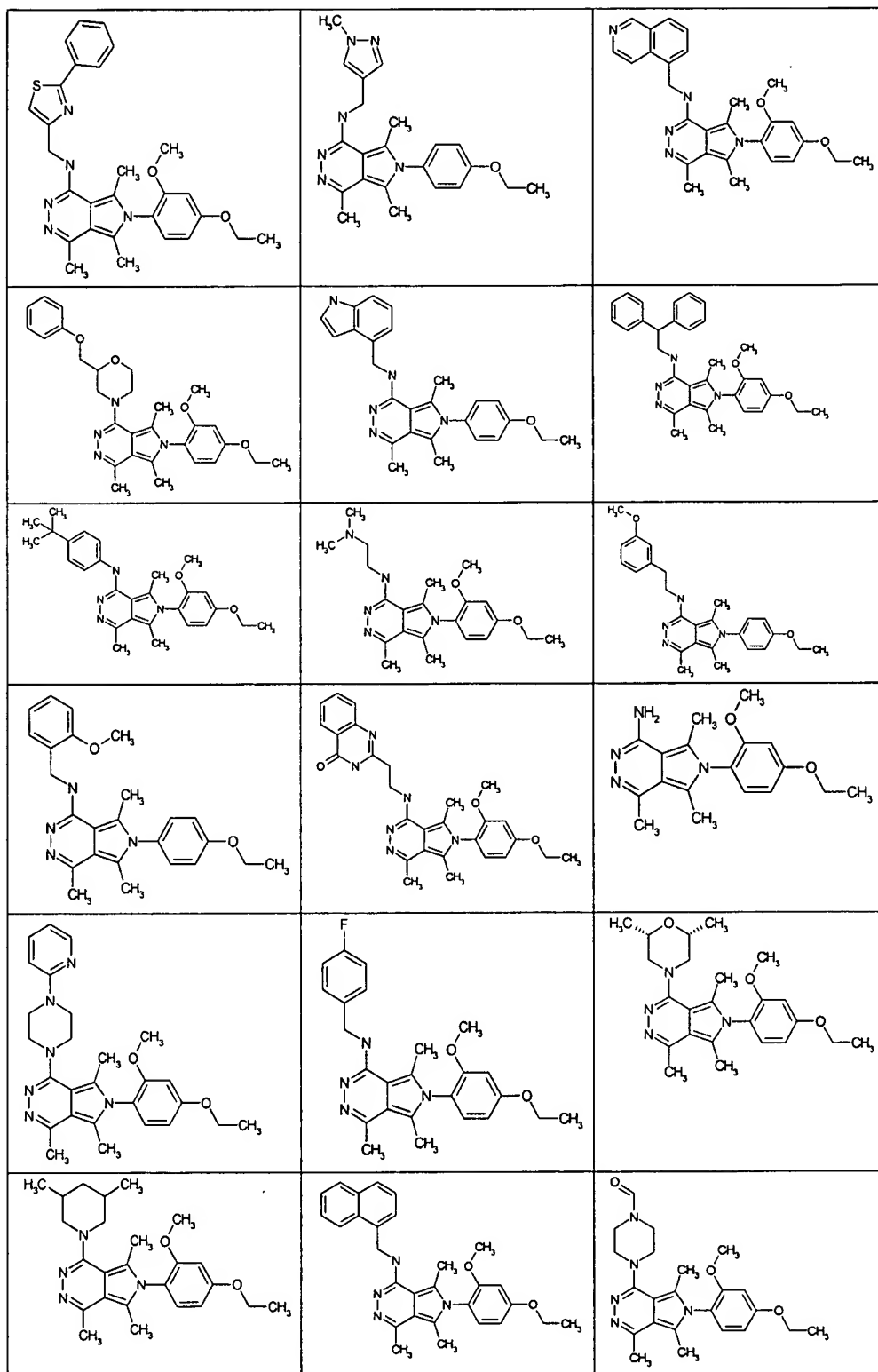


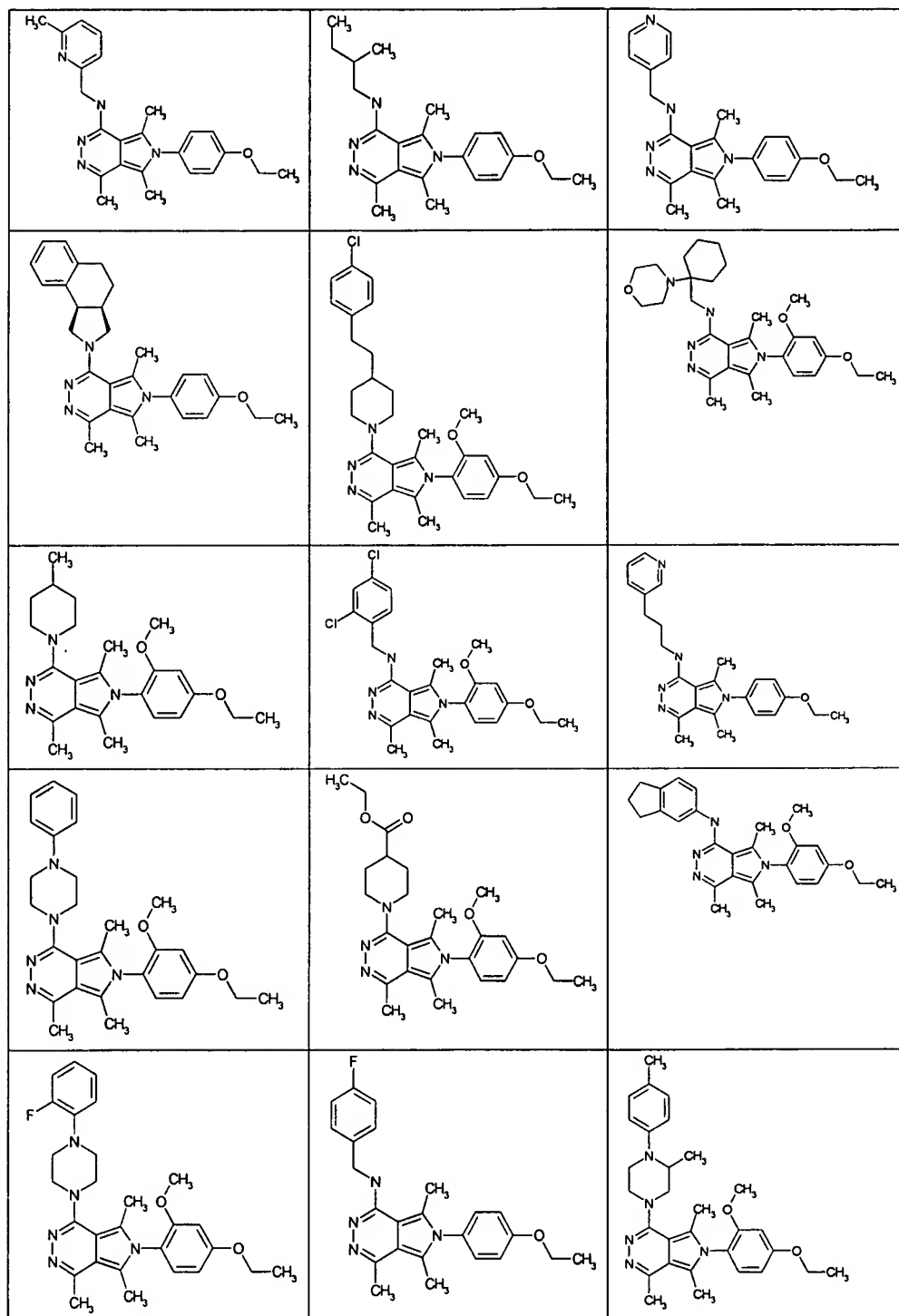


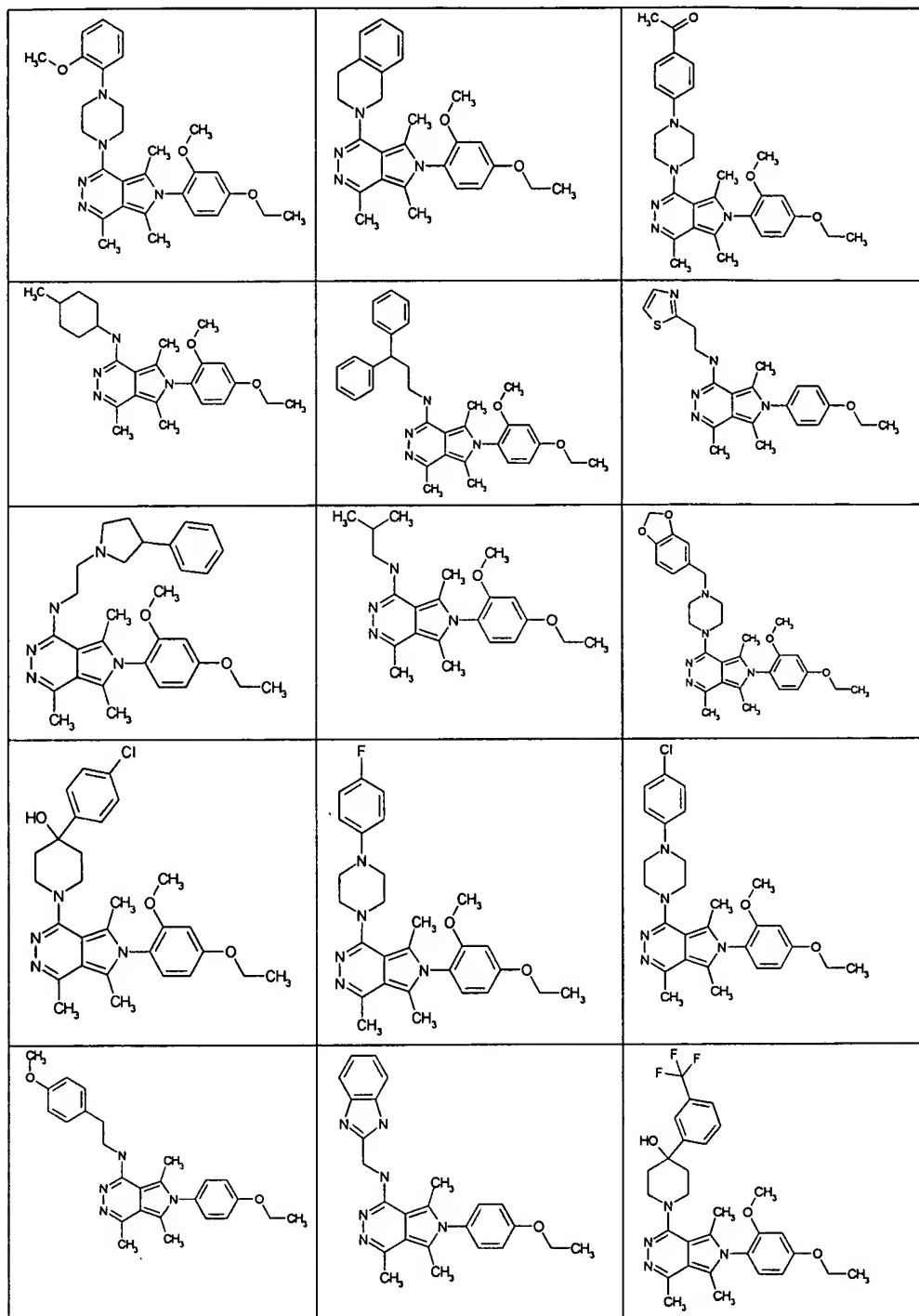


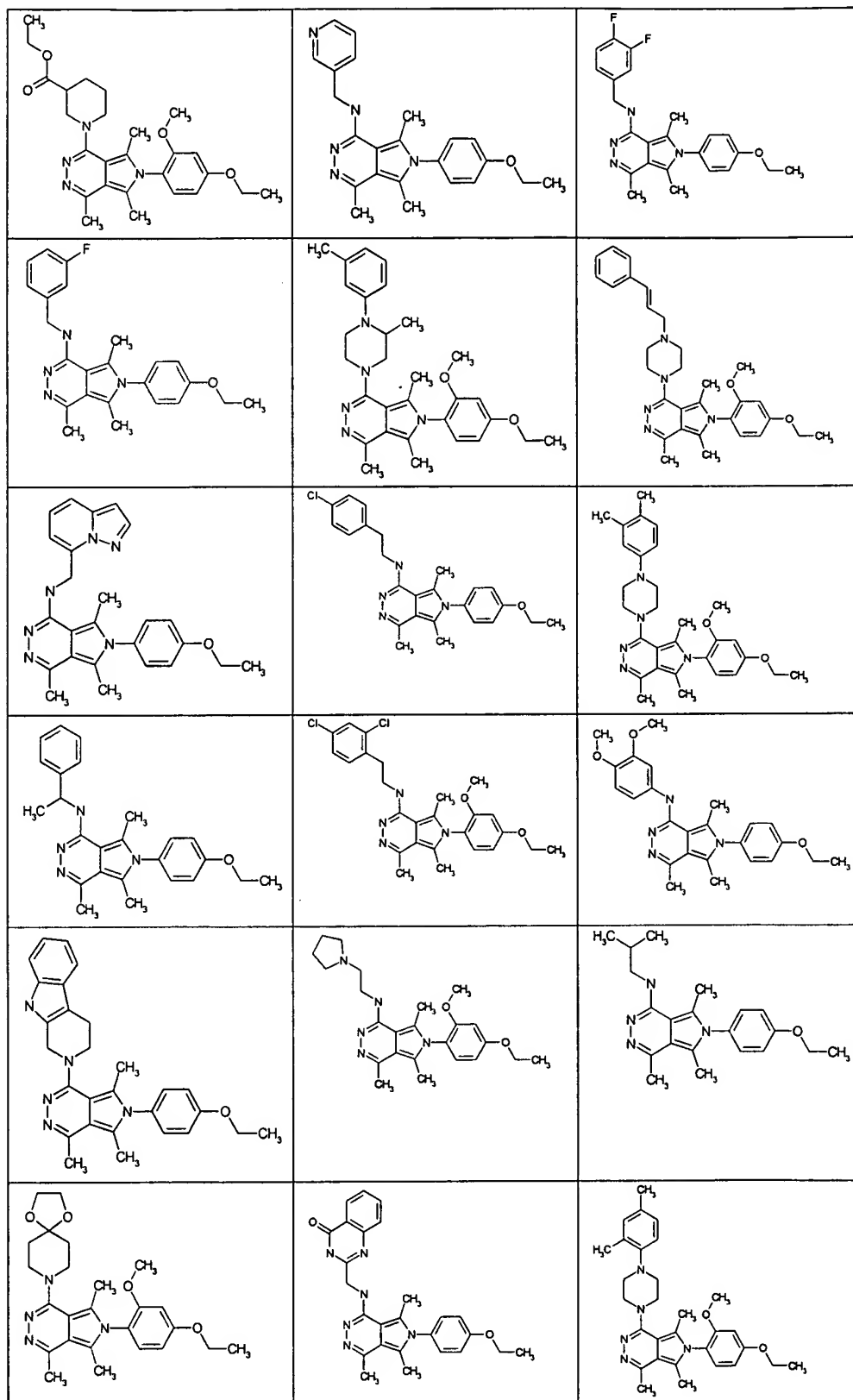


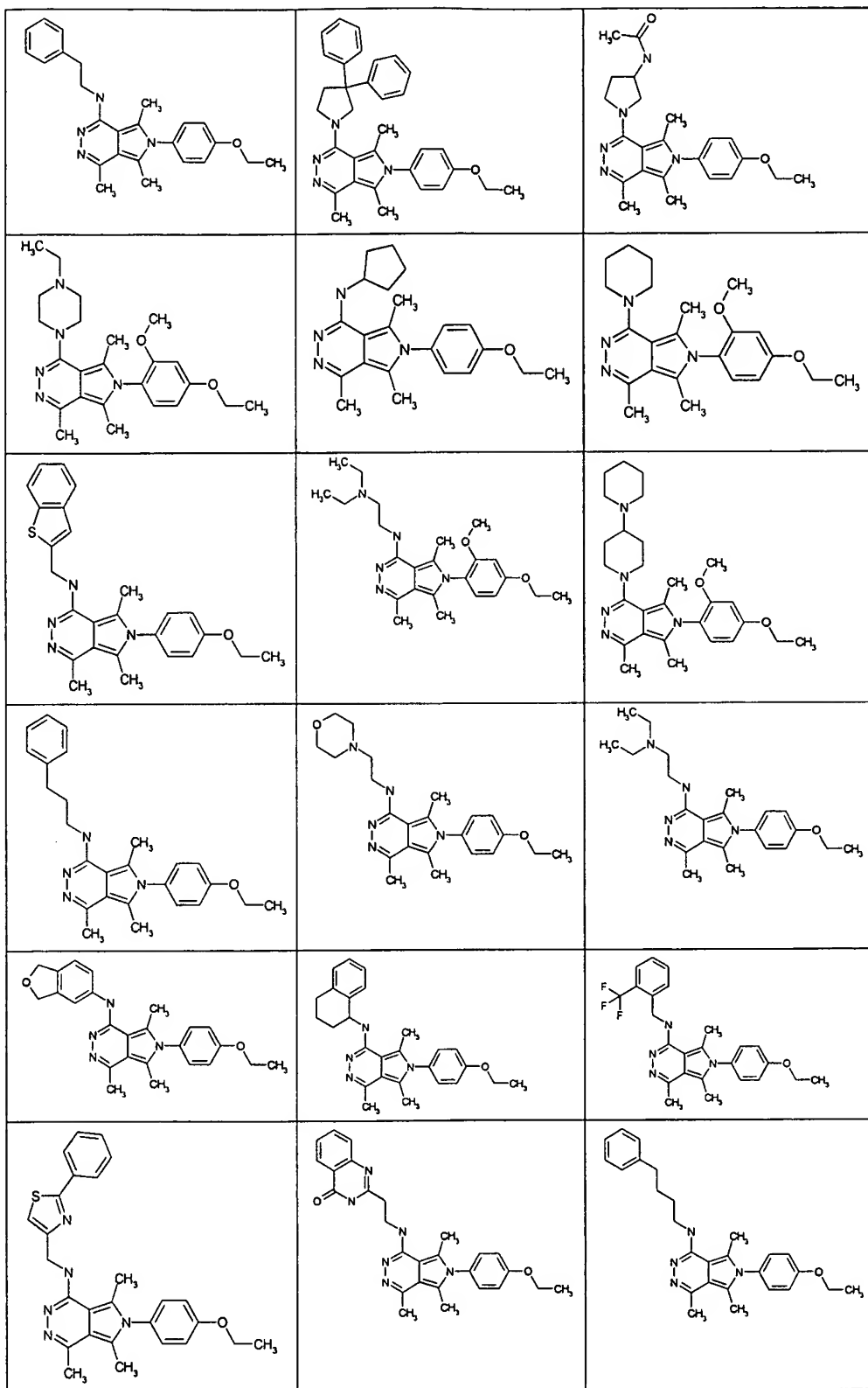


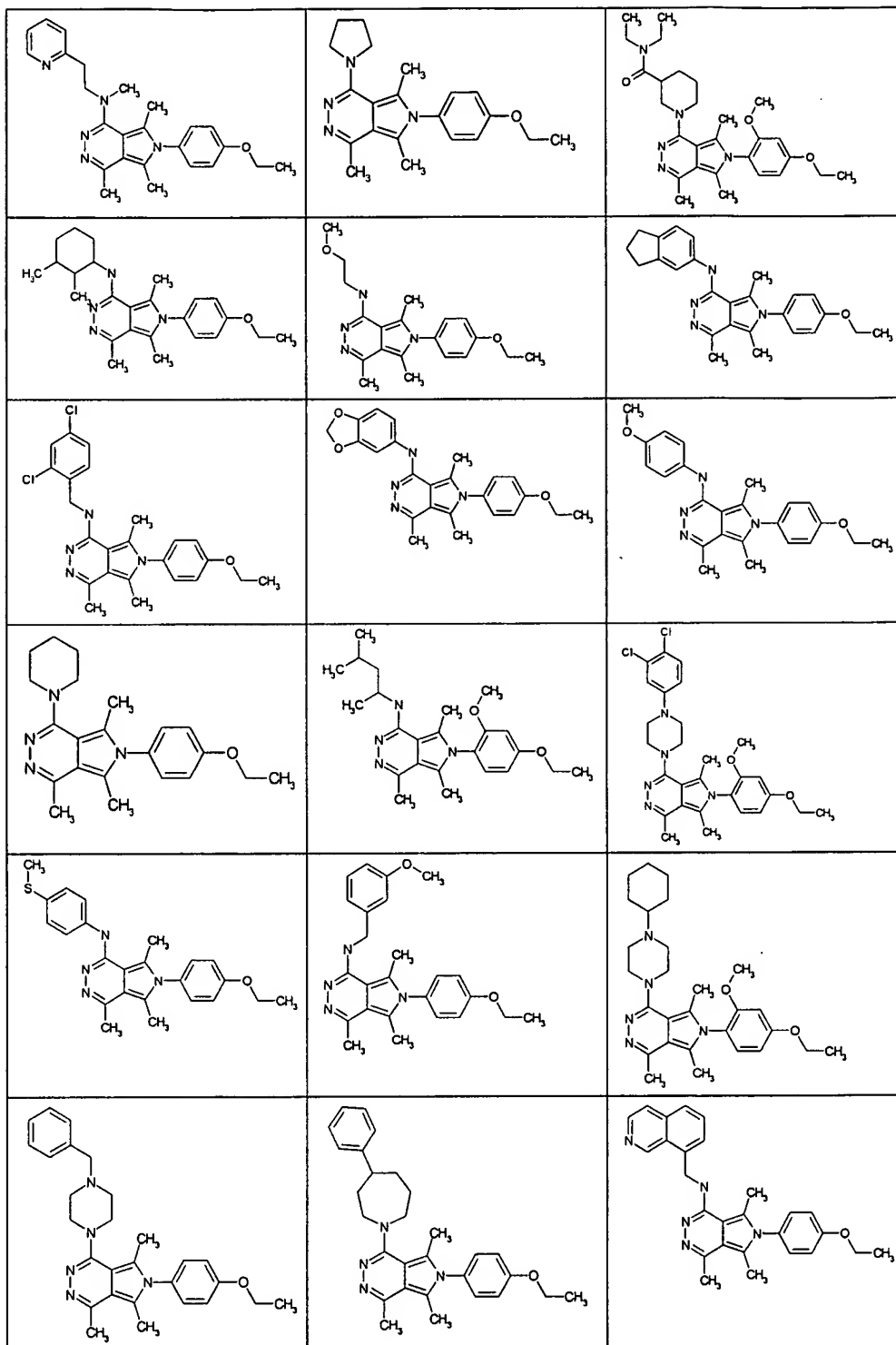


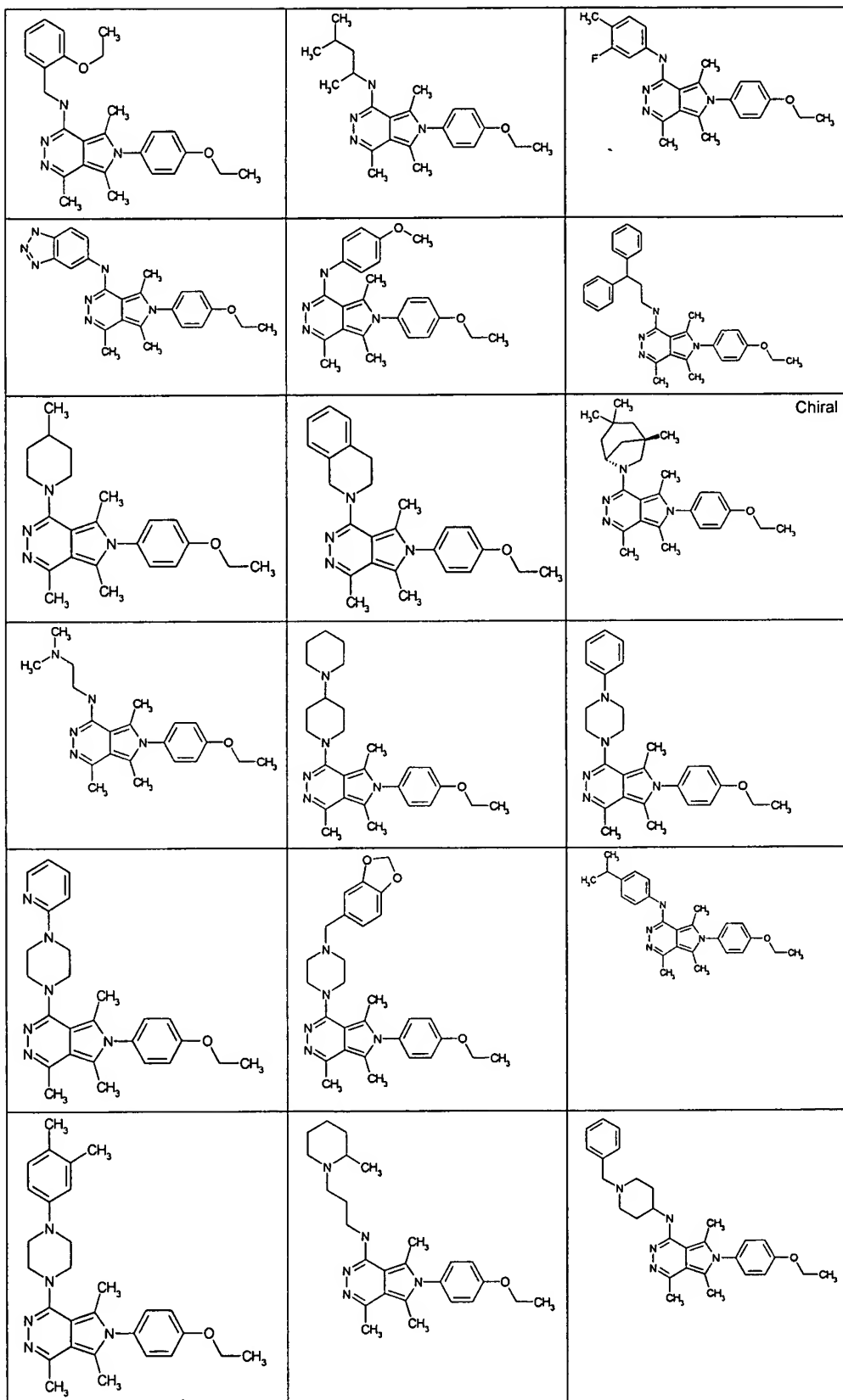


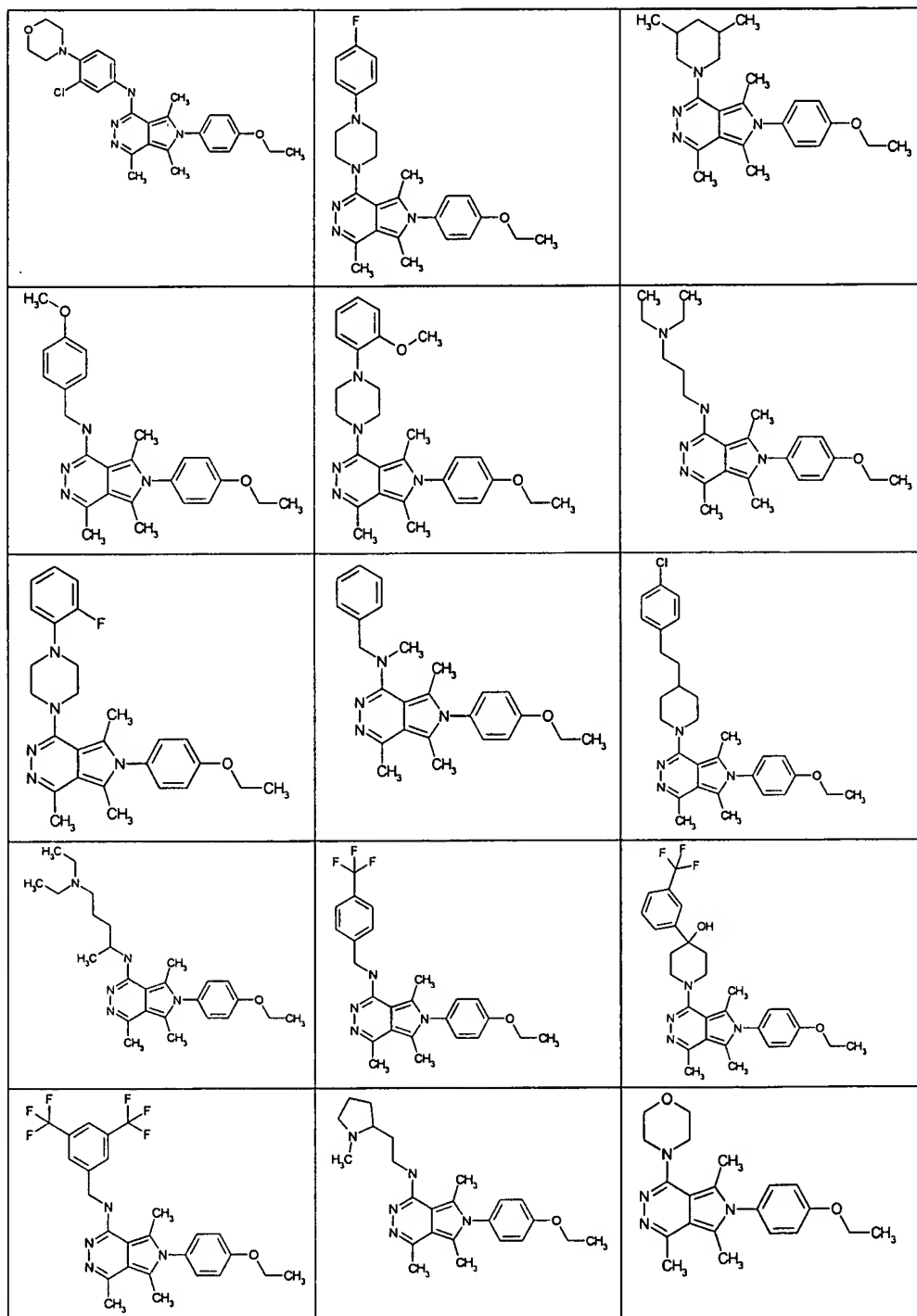


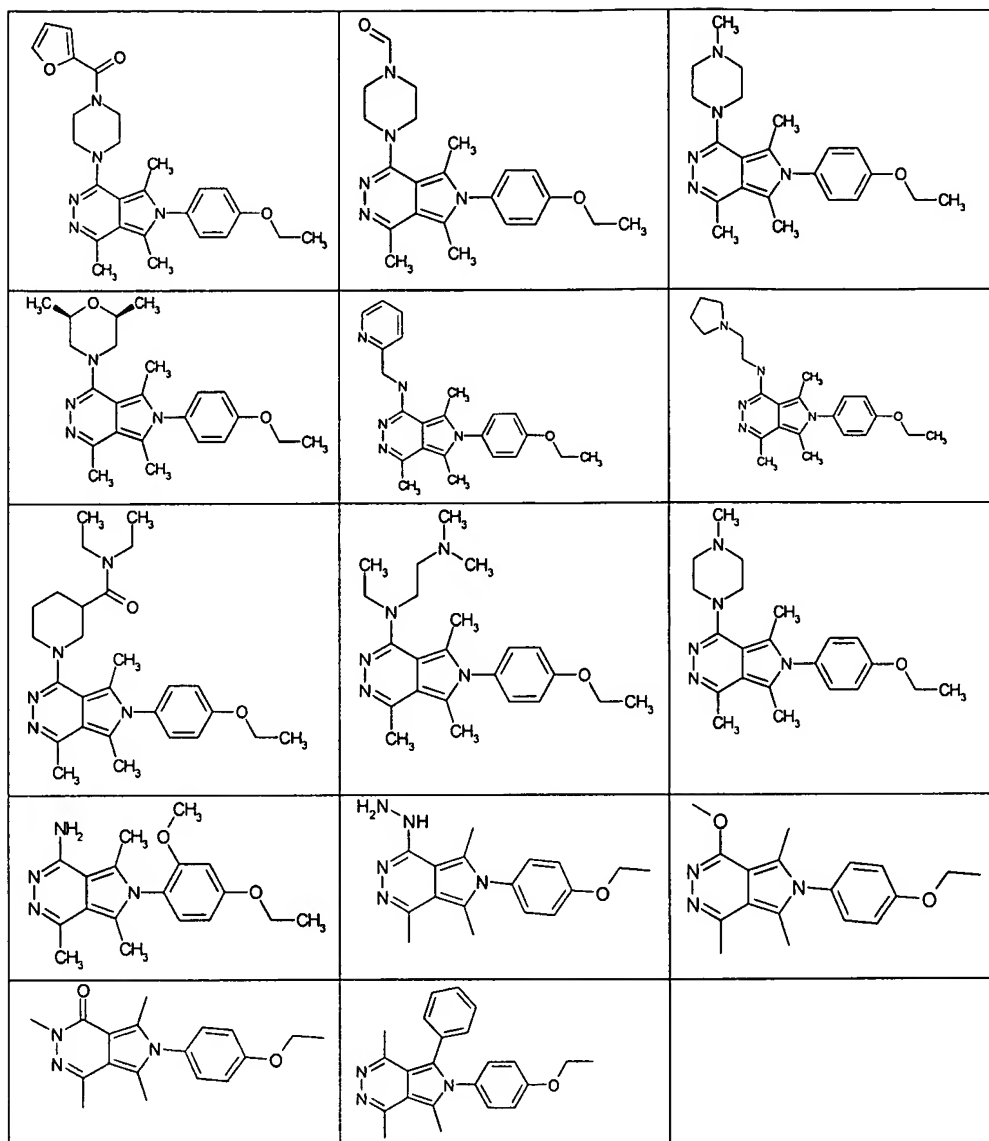








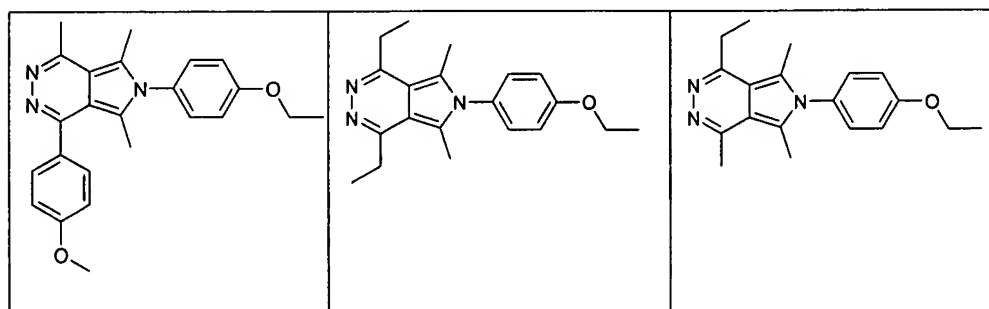


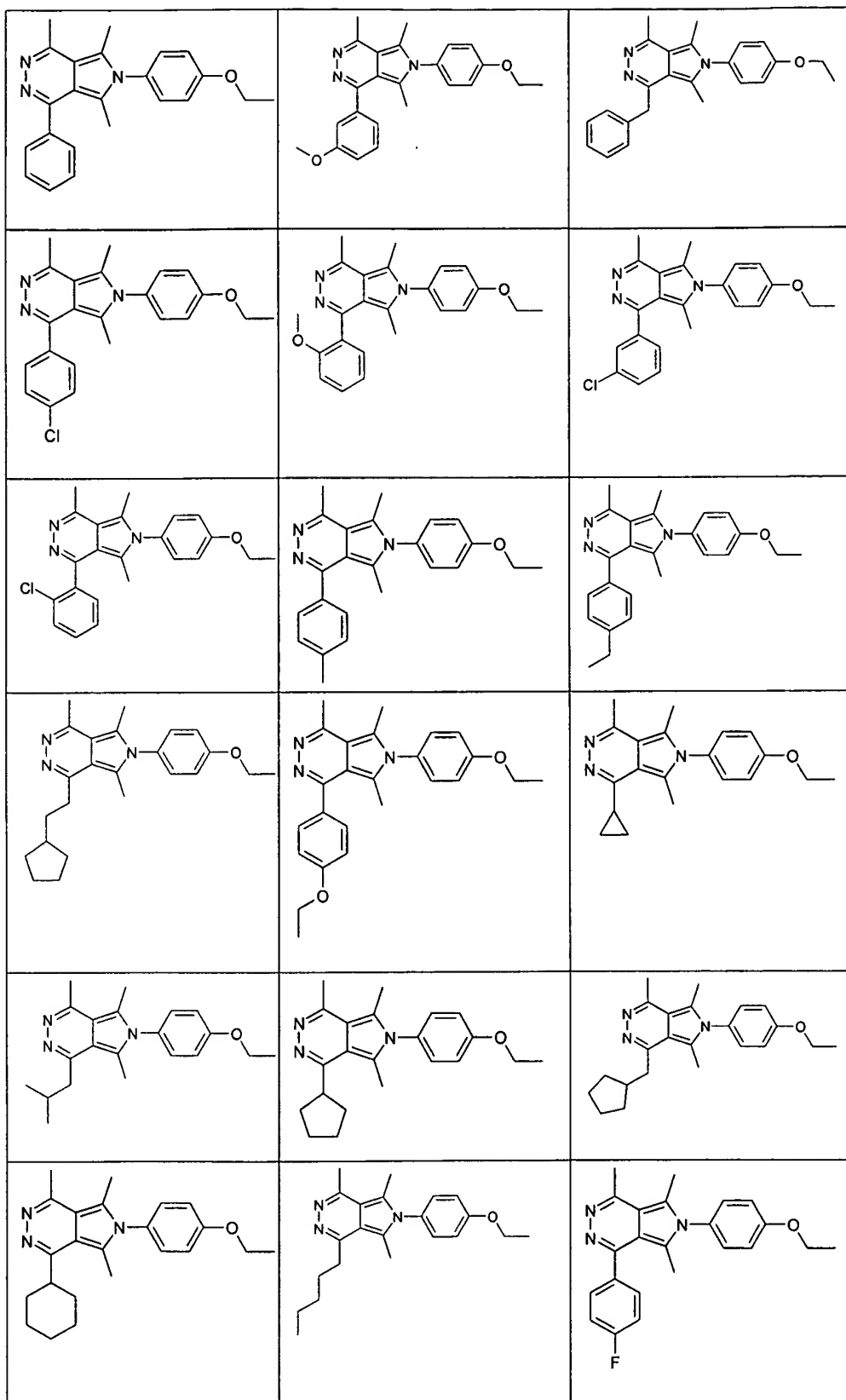


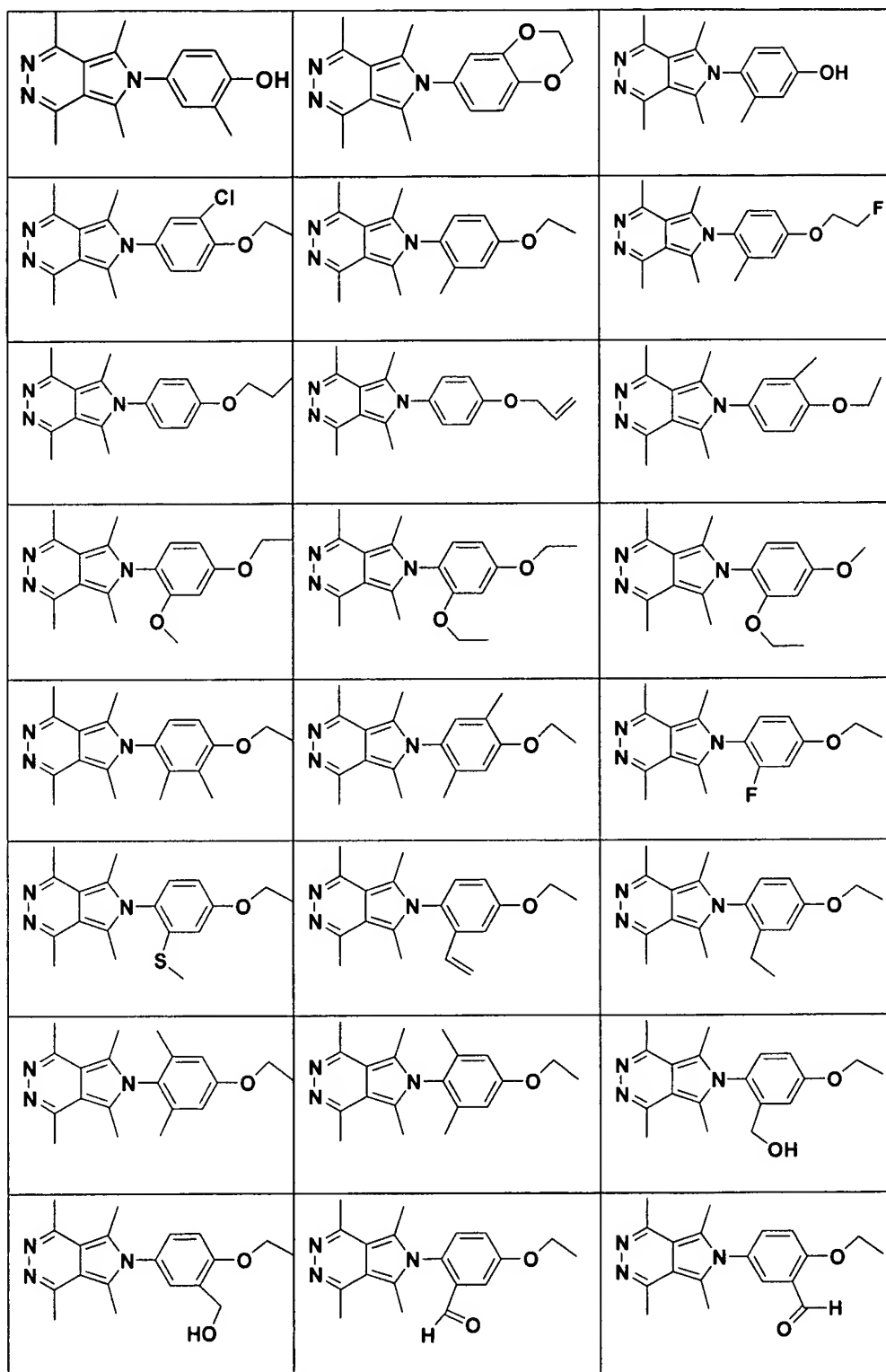
or a pharmaceutically acceptable salt thereof.

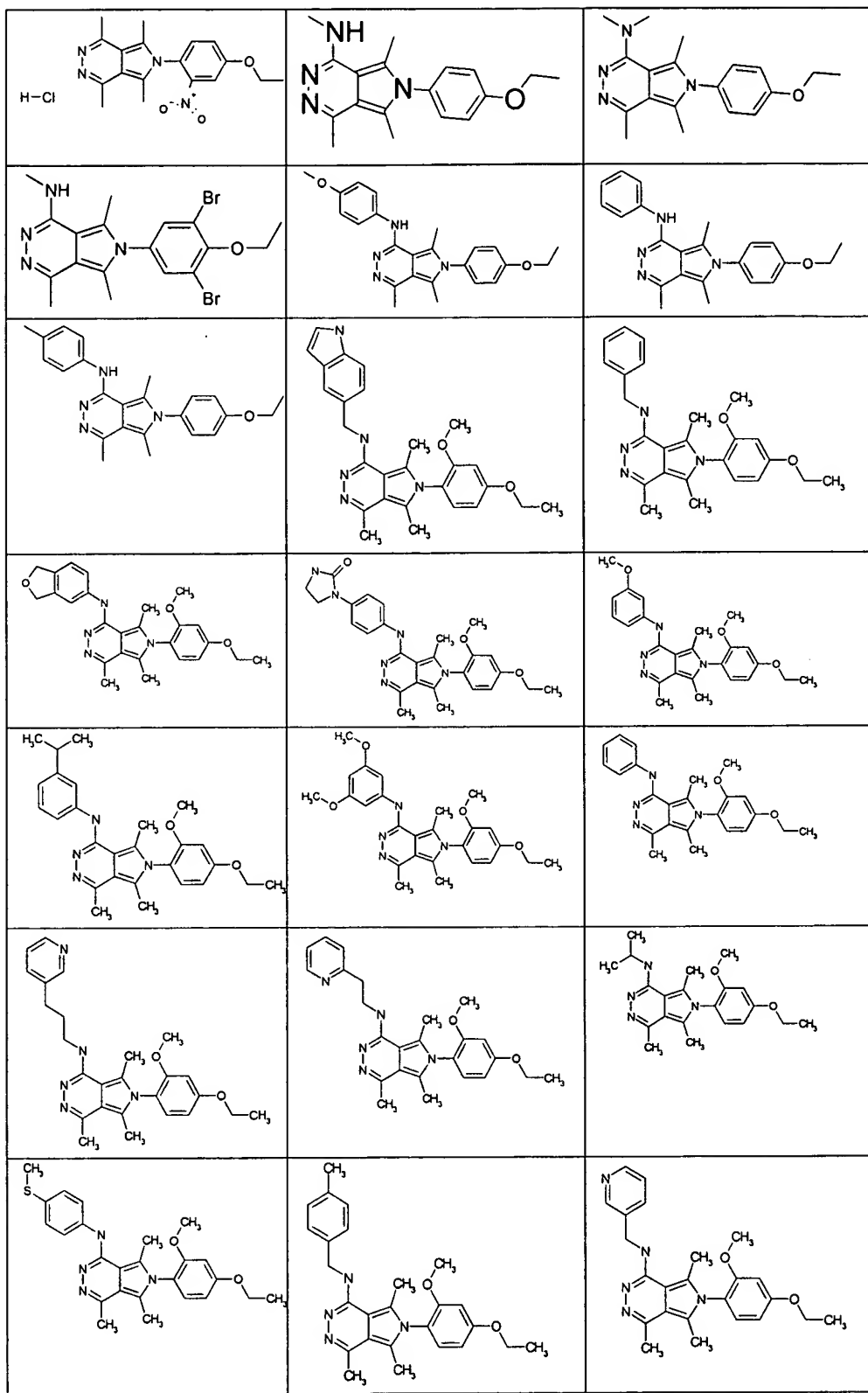
Cancel claims 5 through 24

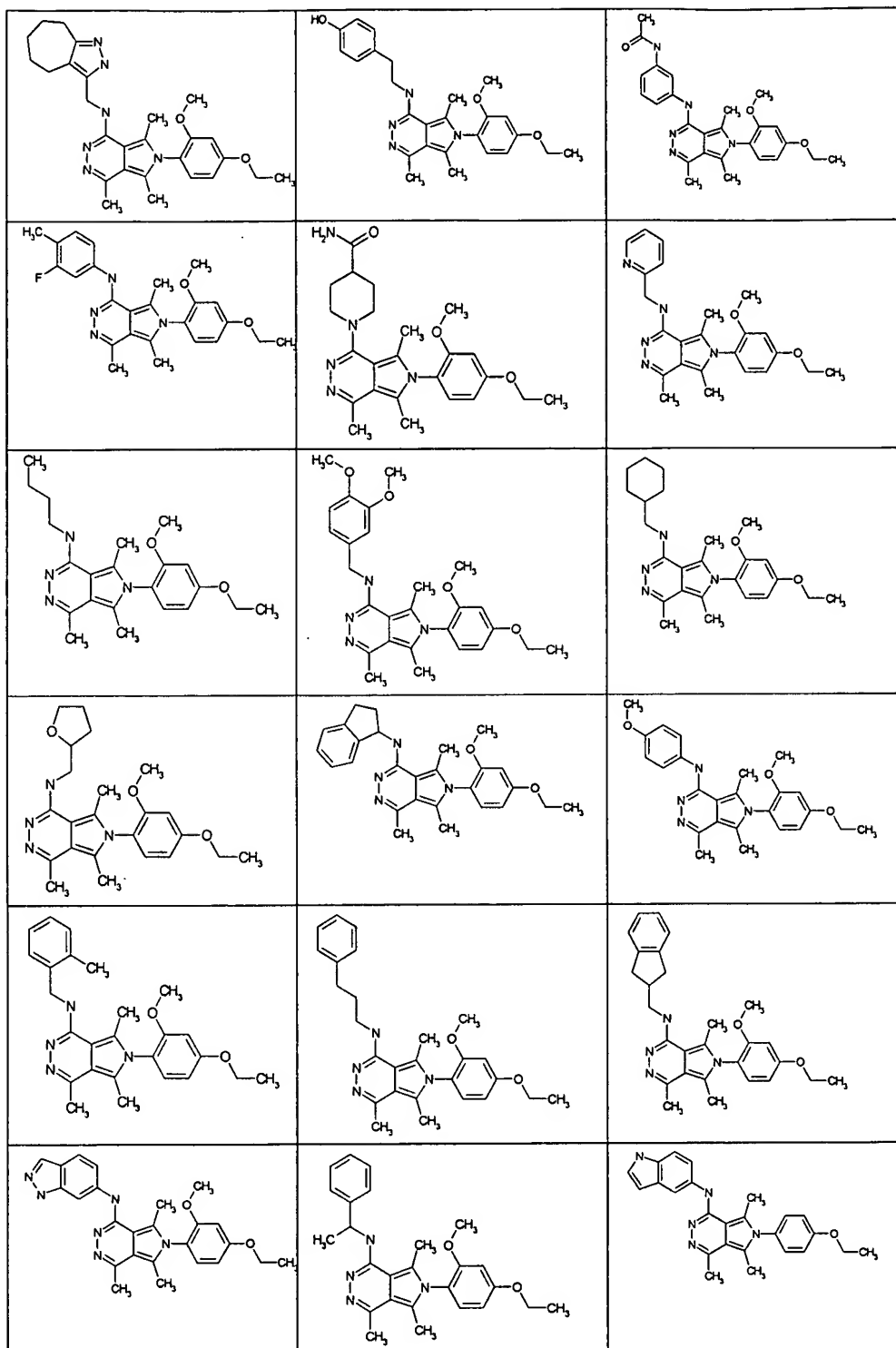
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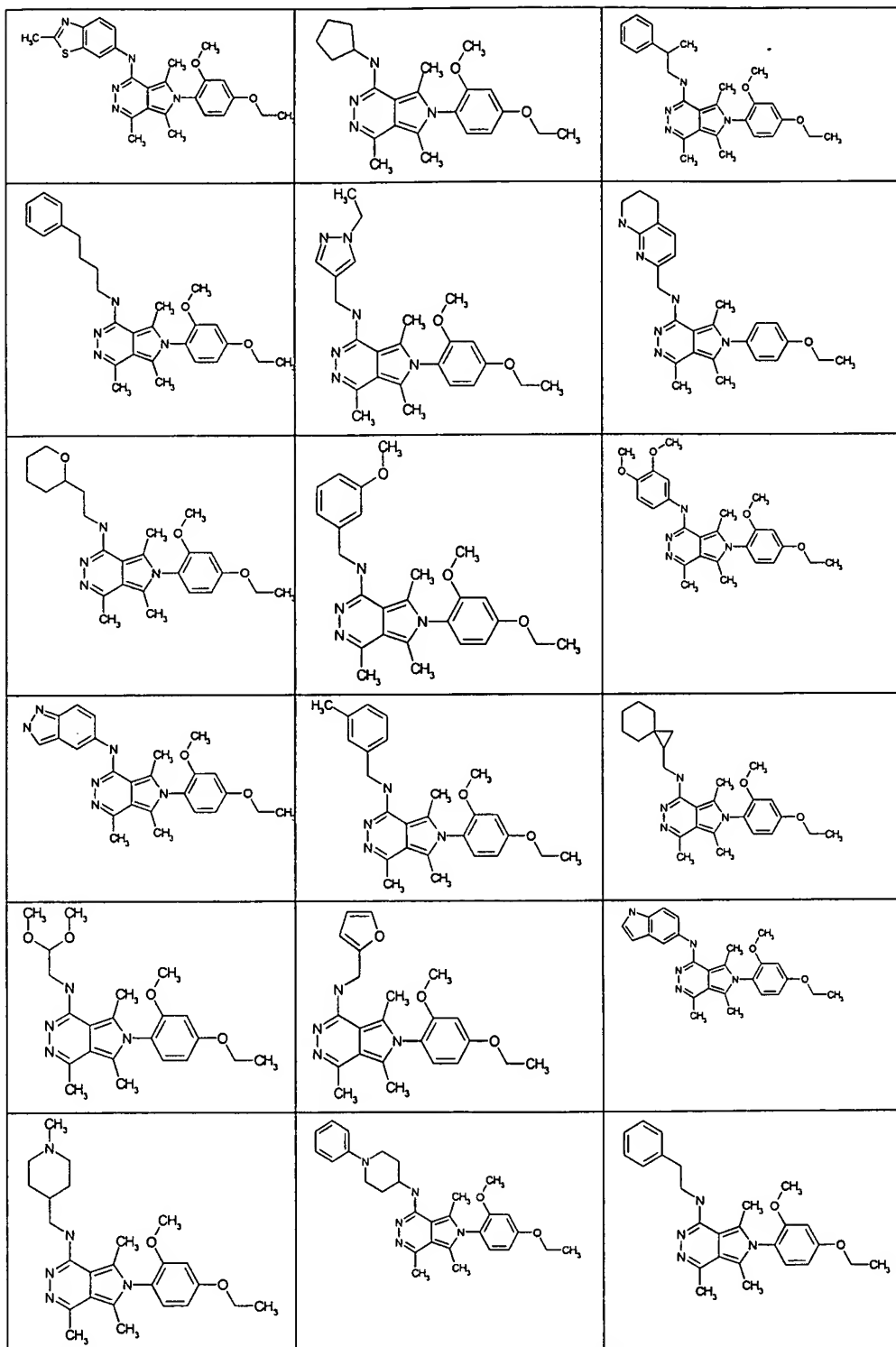


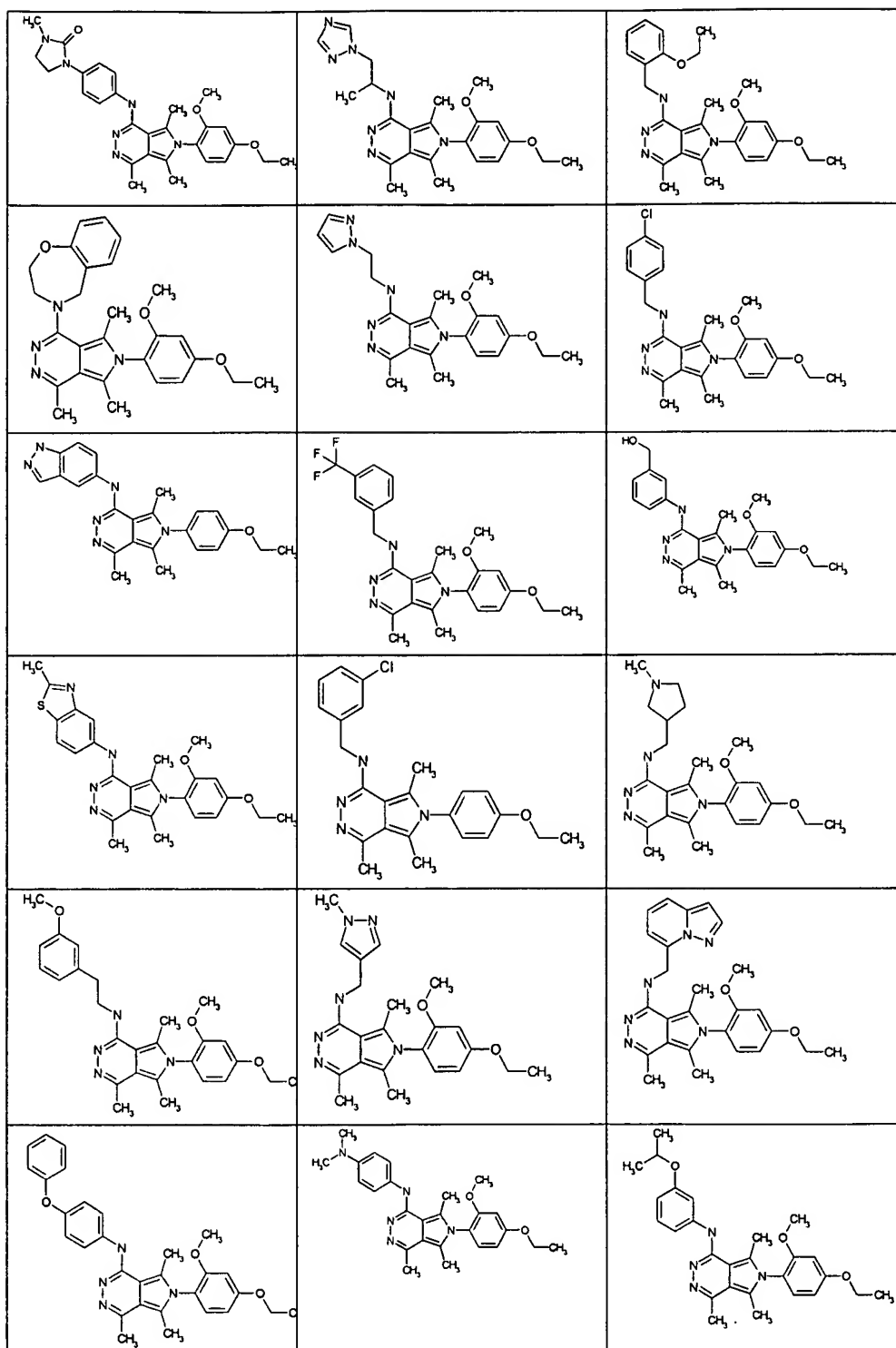


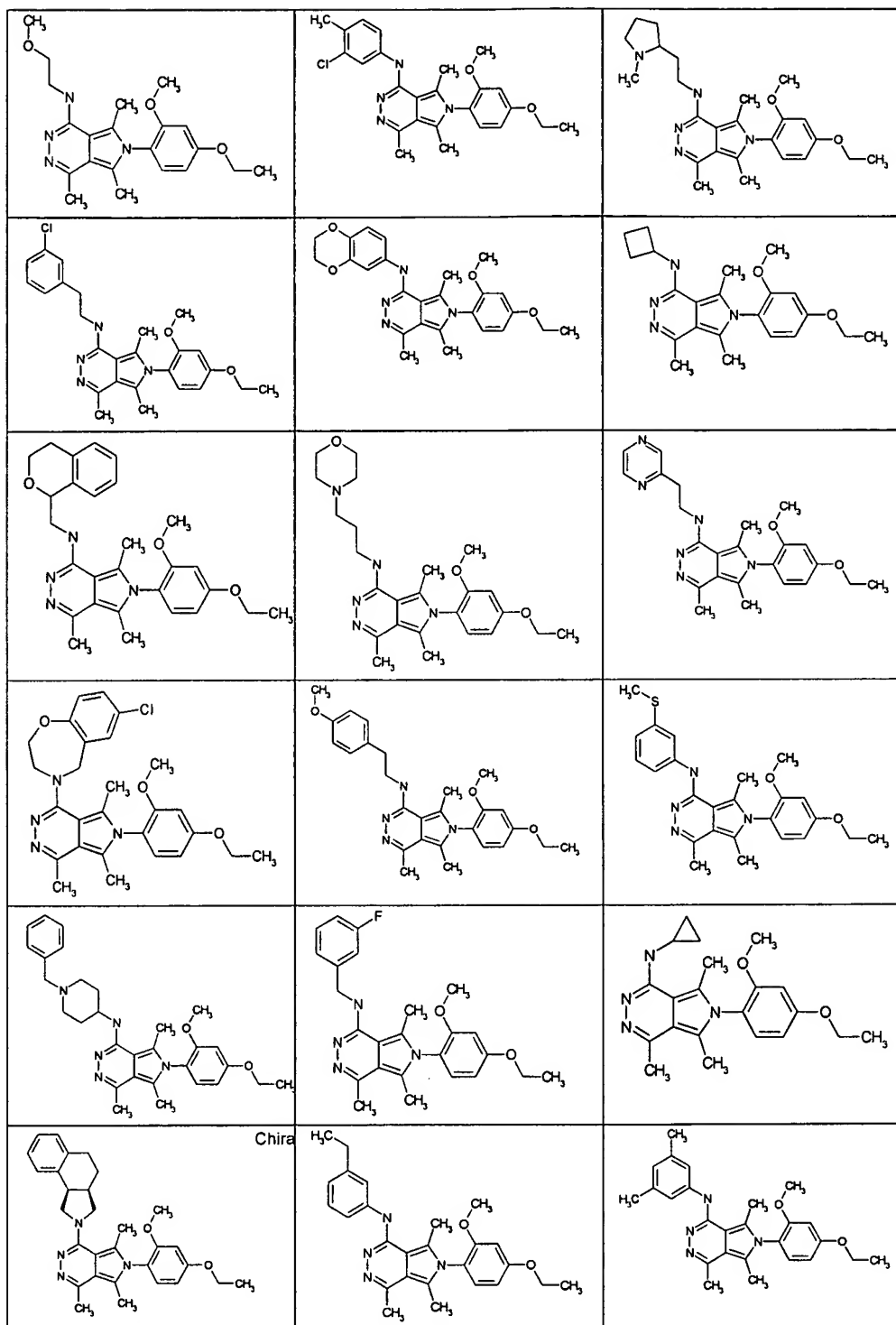


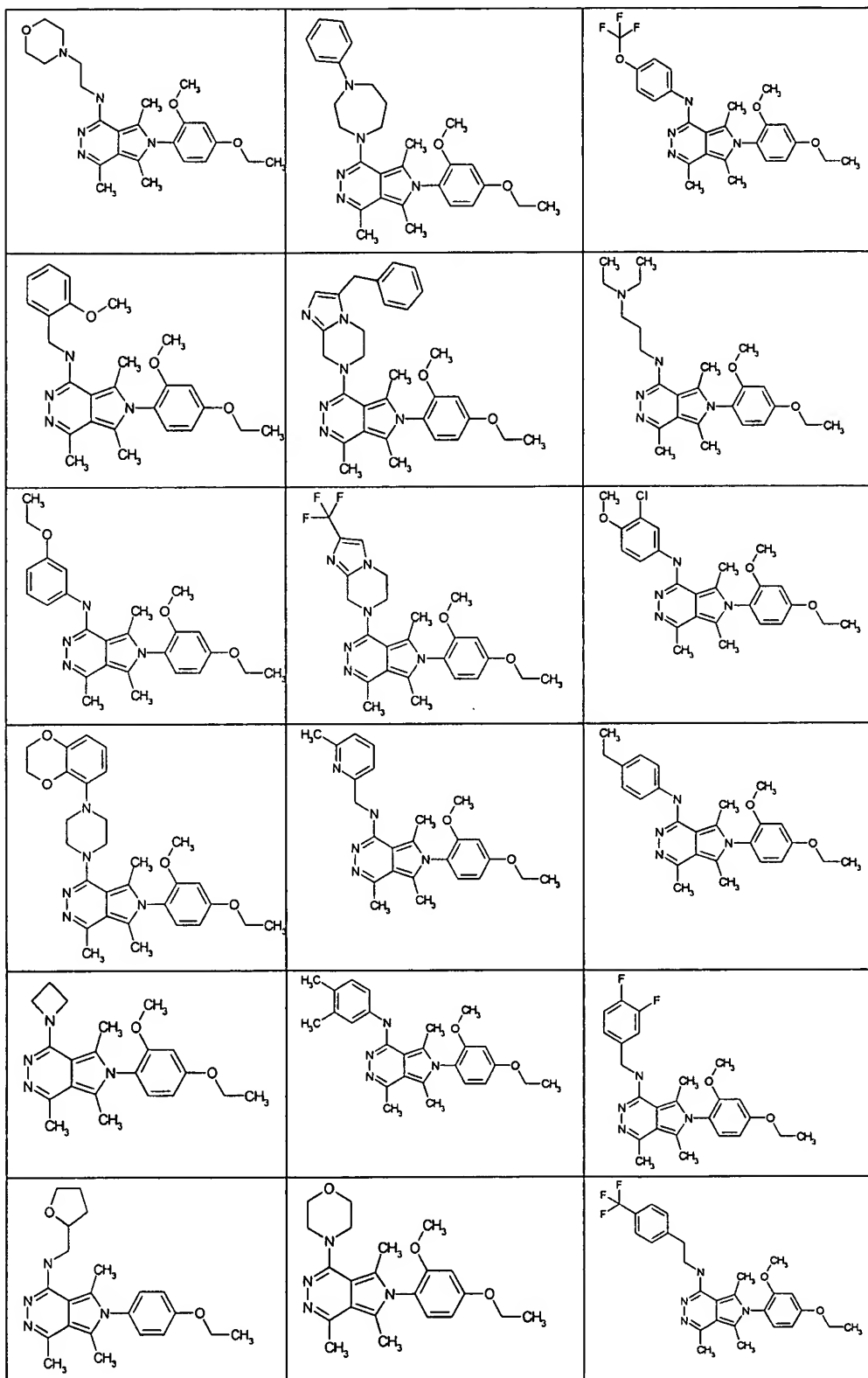


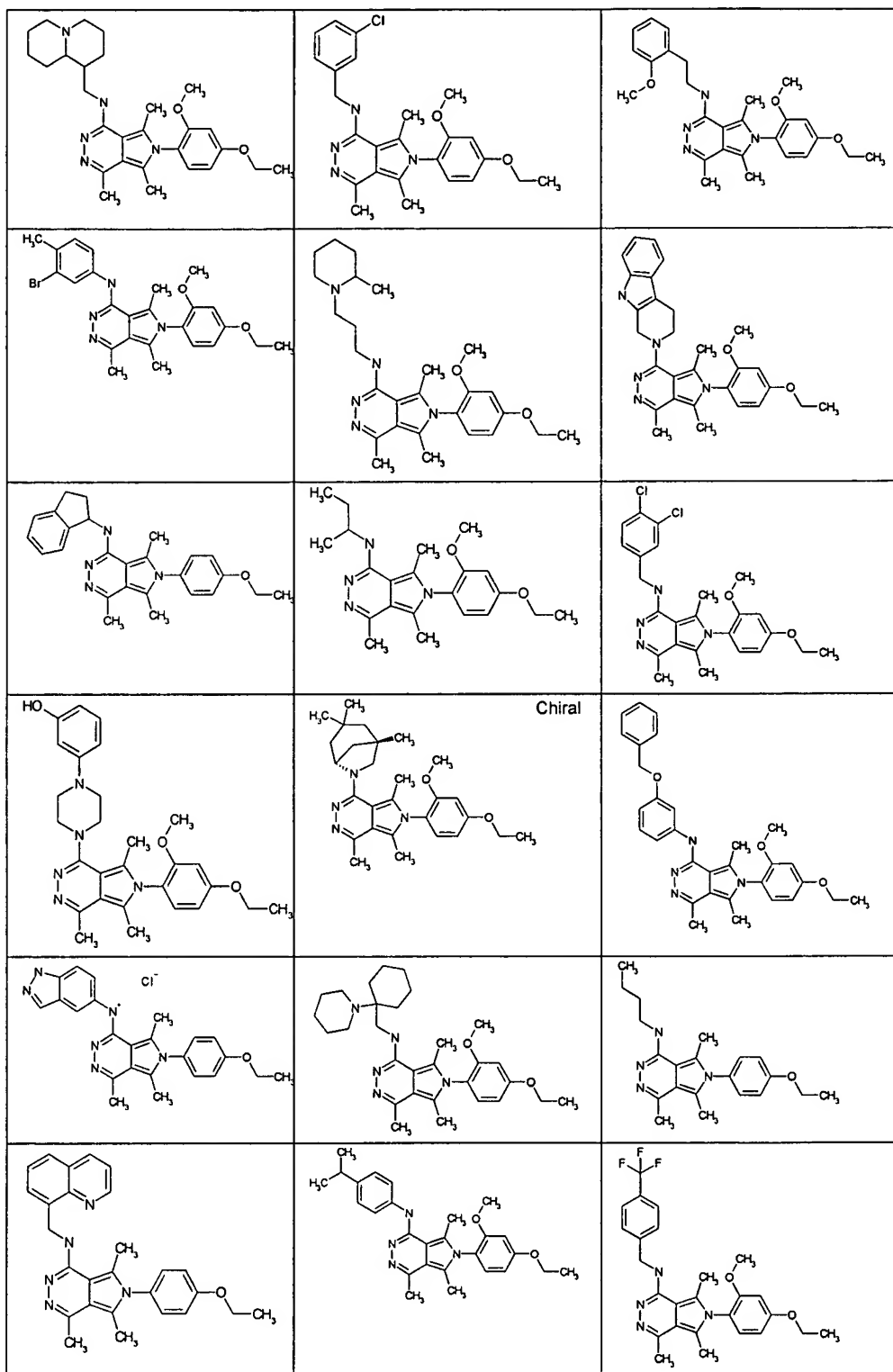


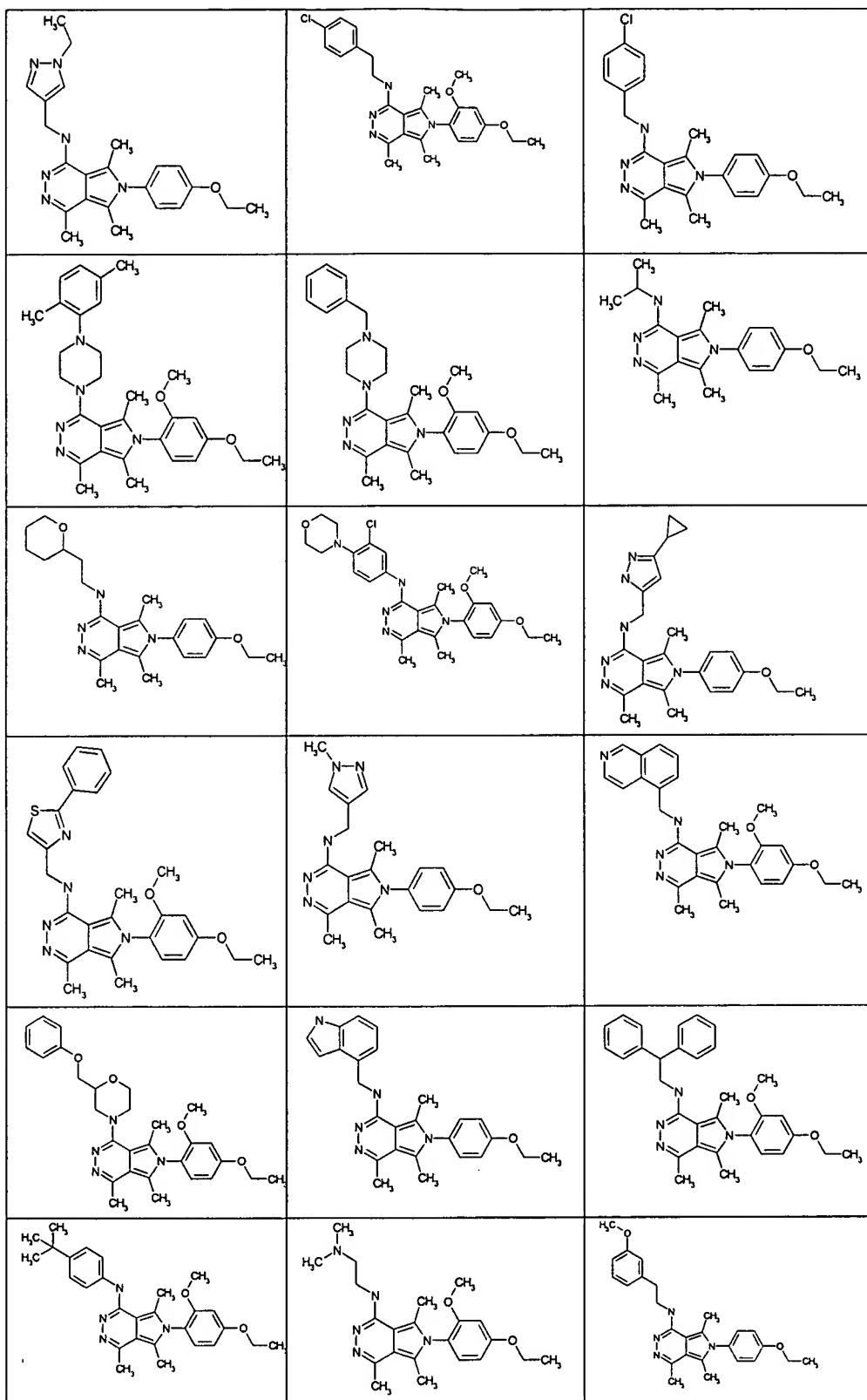


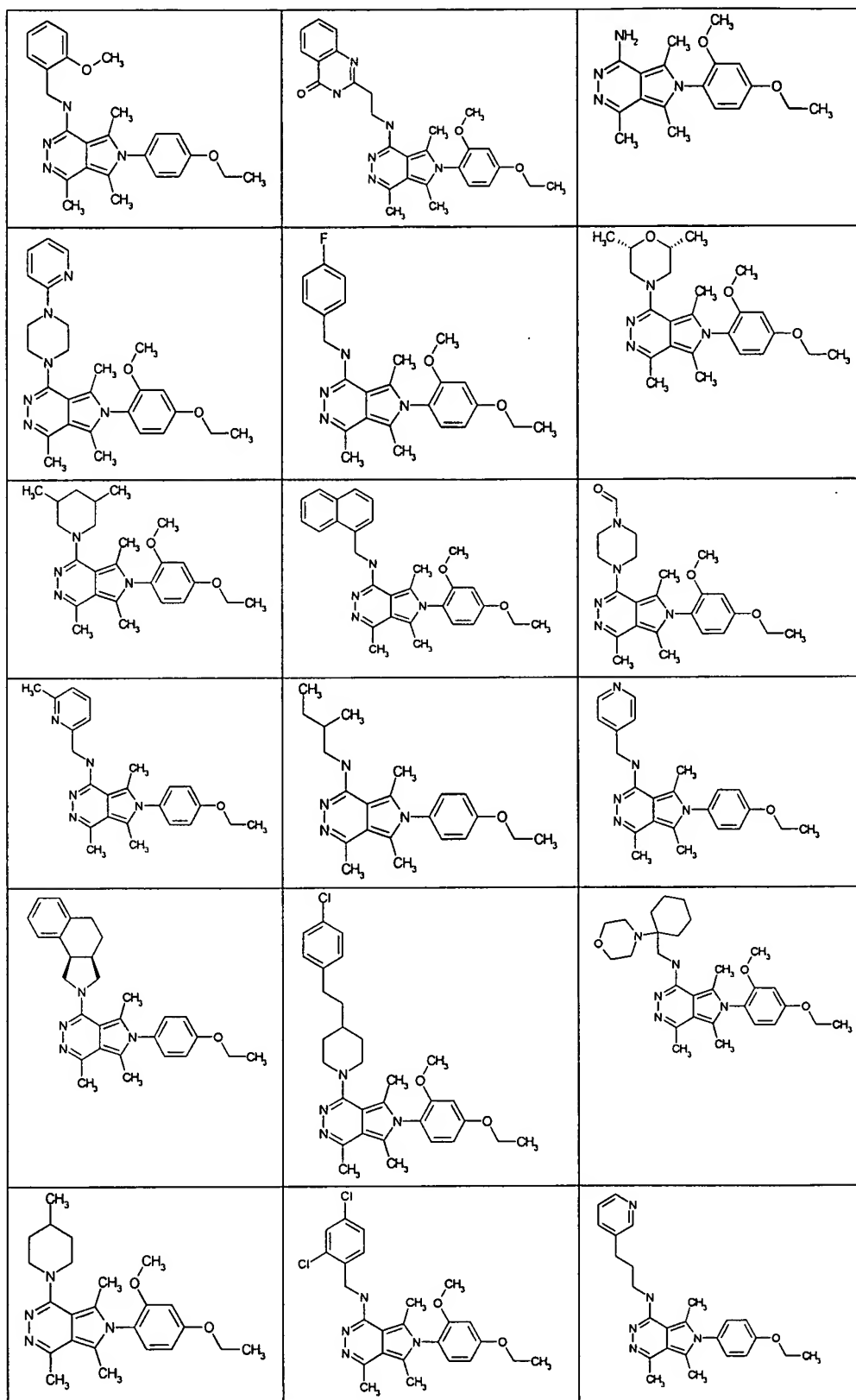


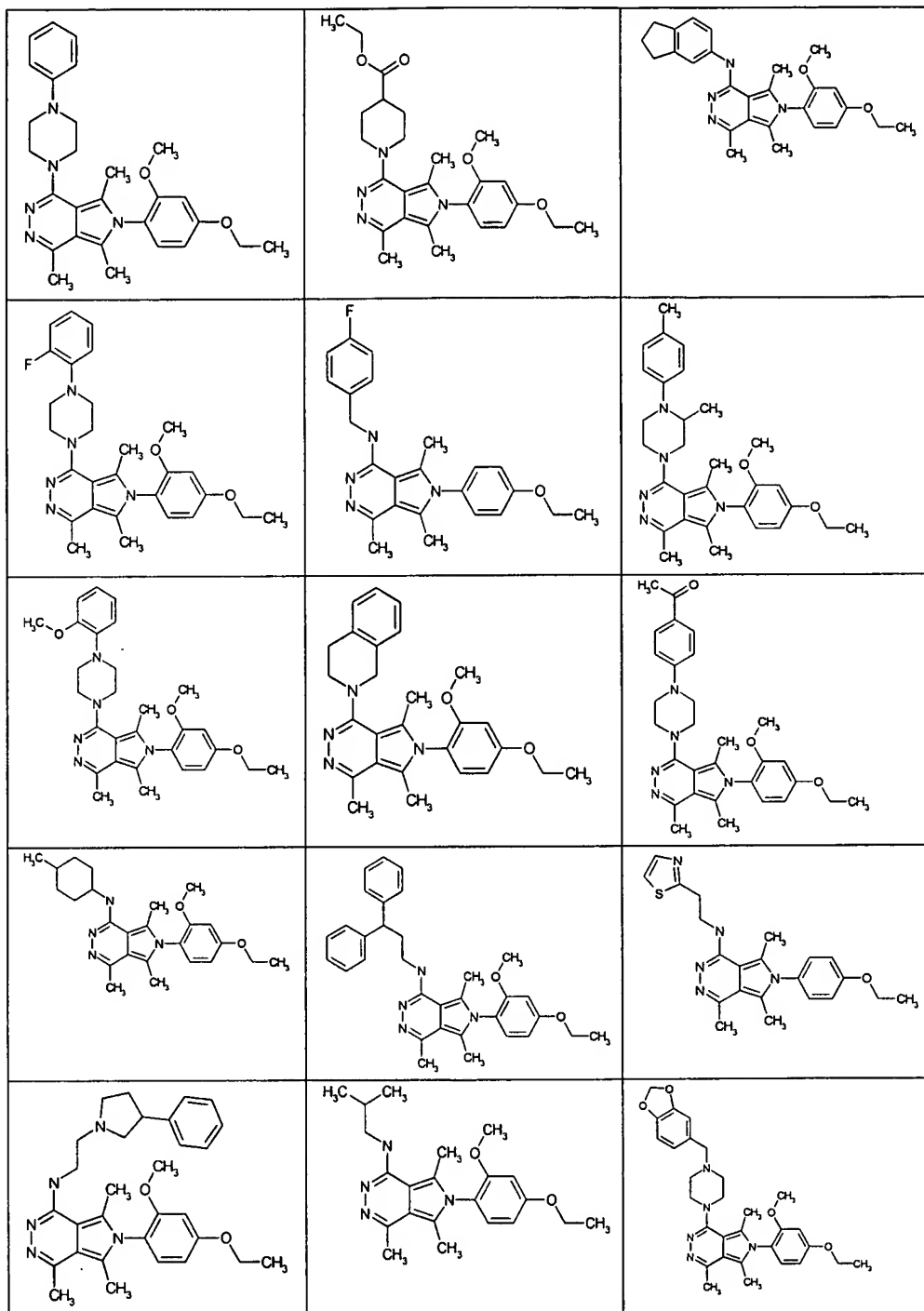


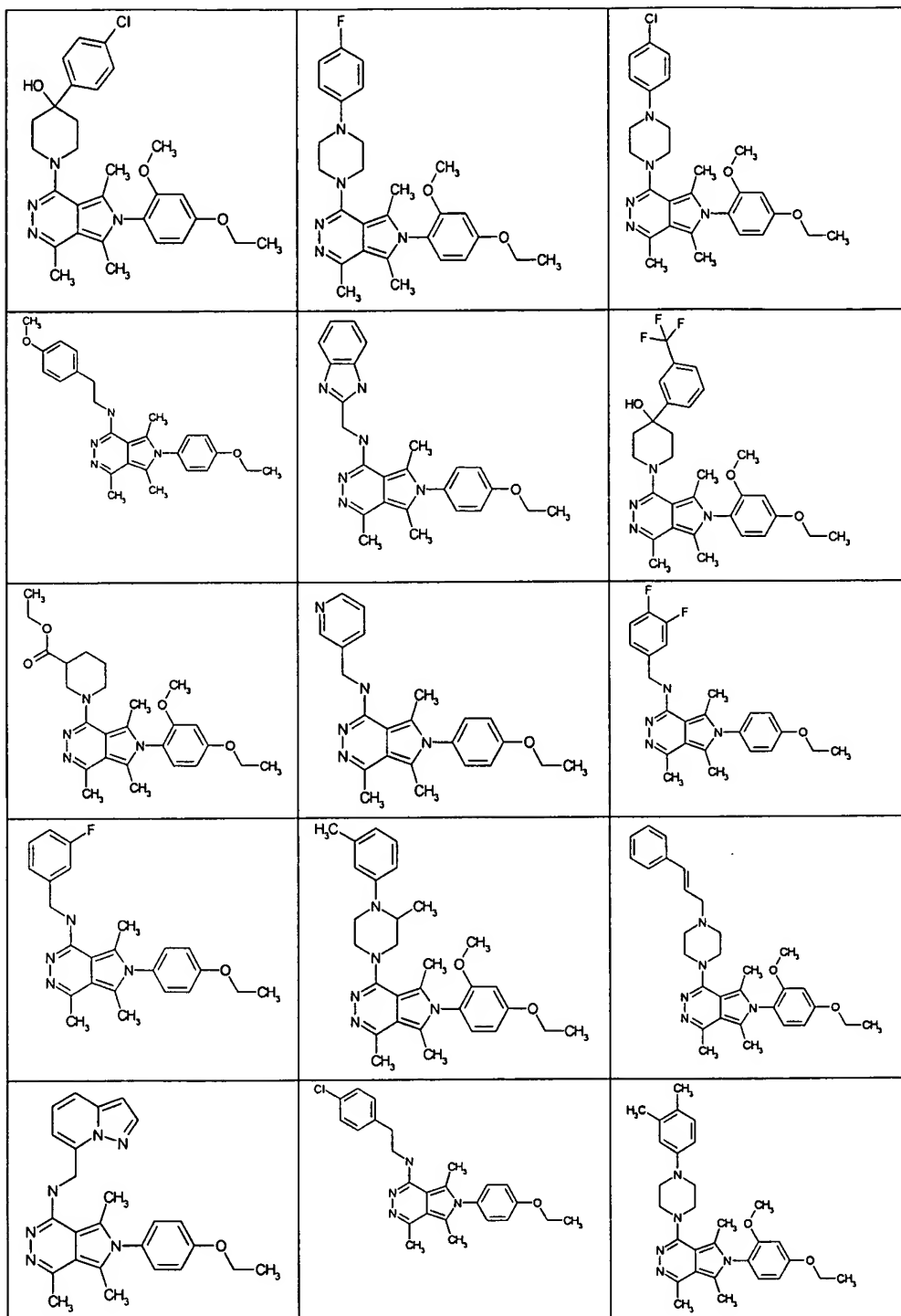


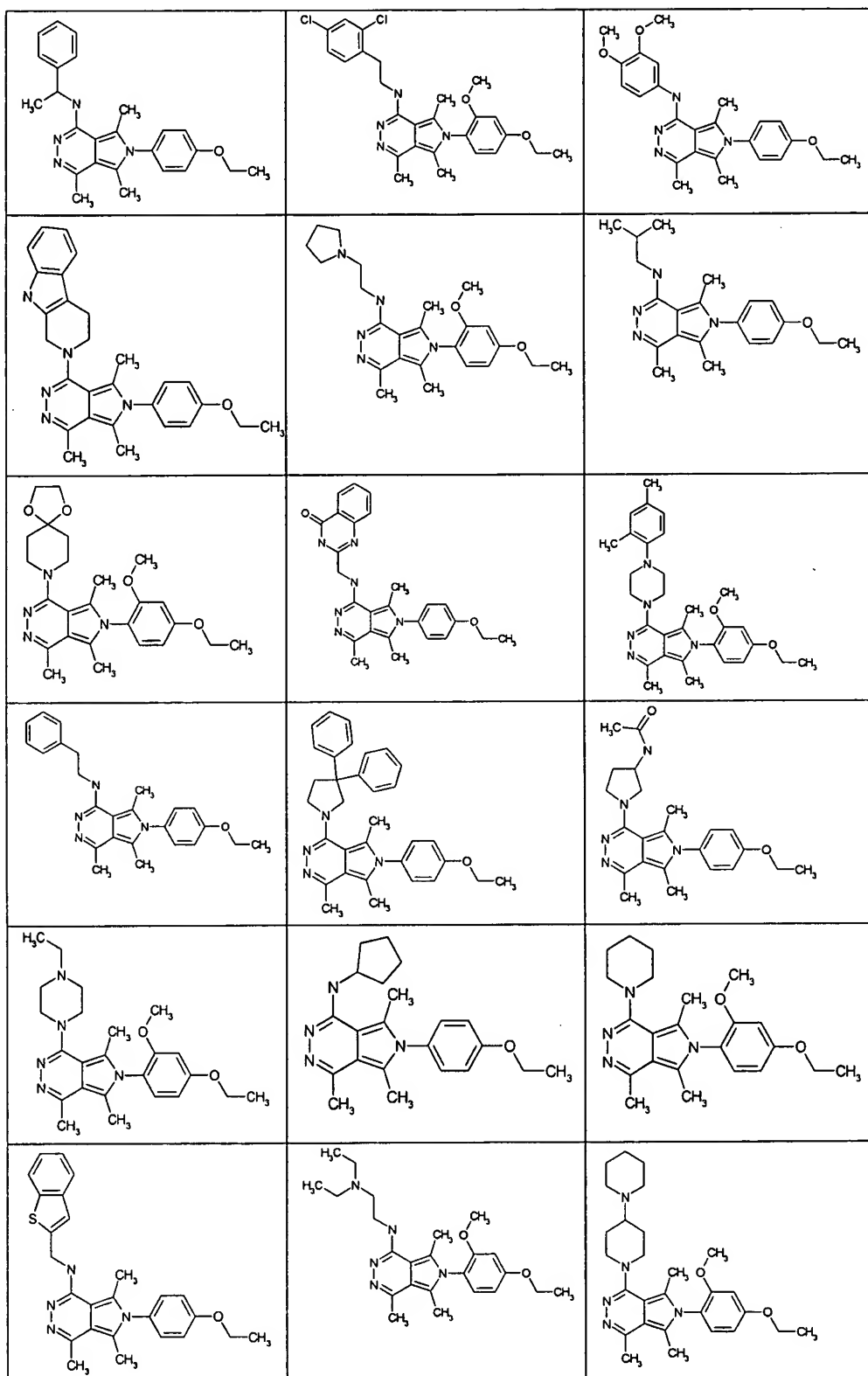


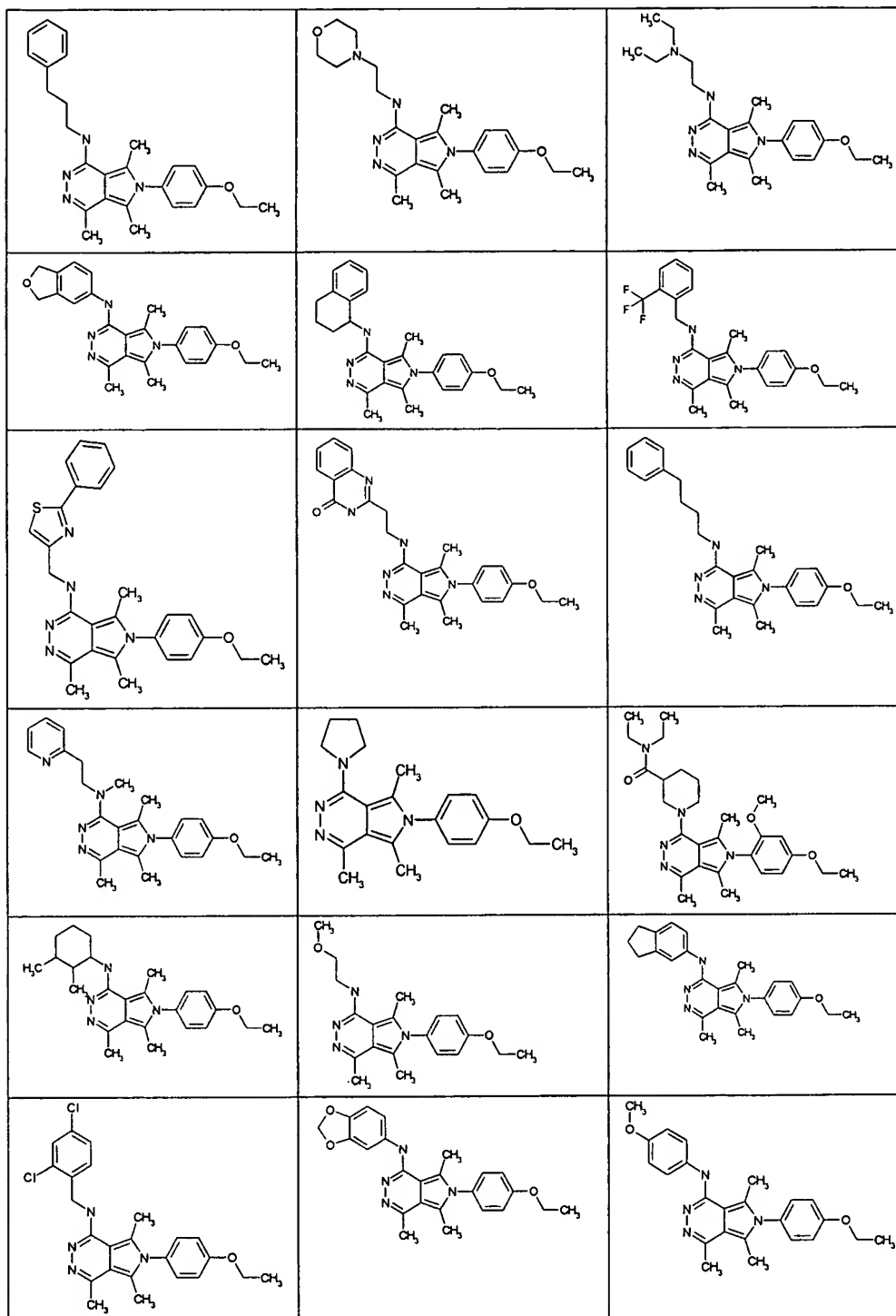


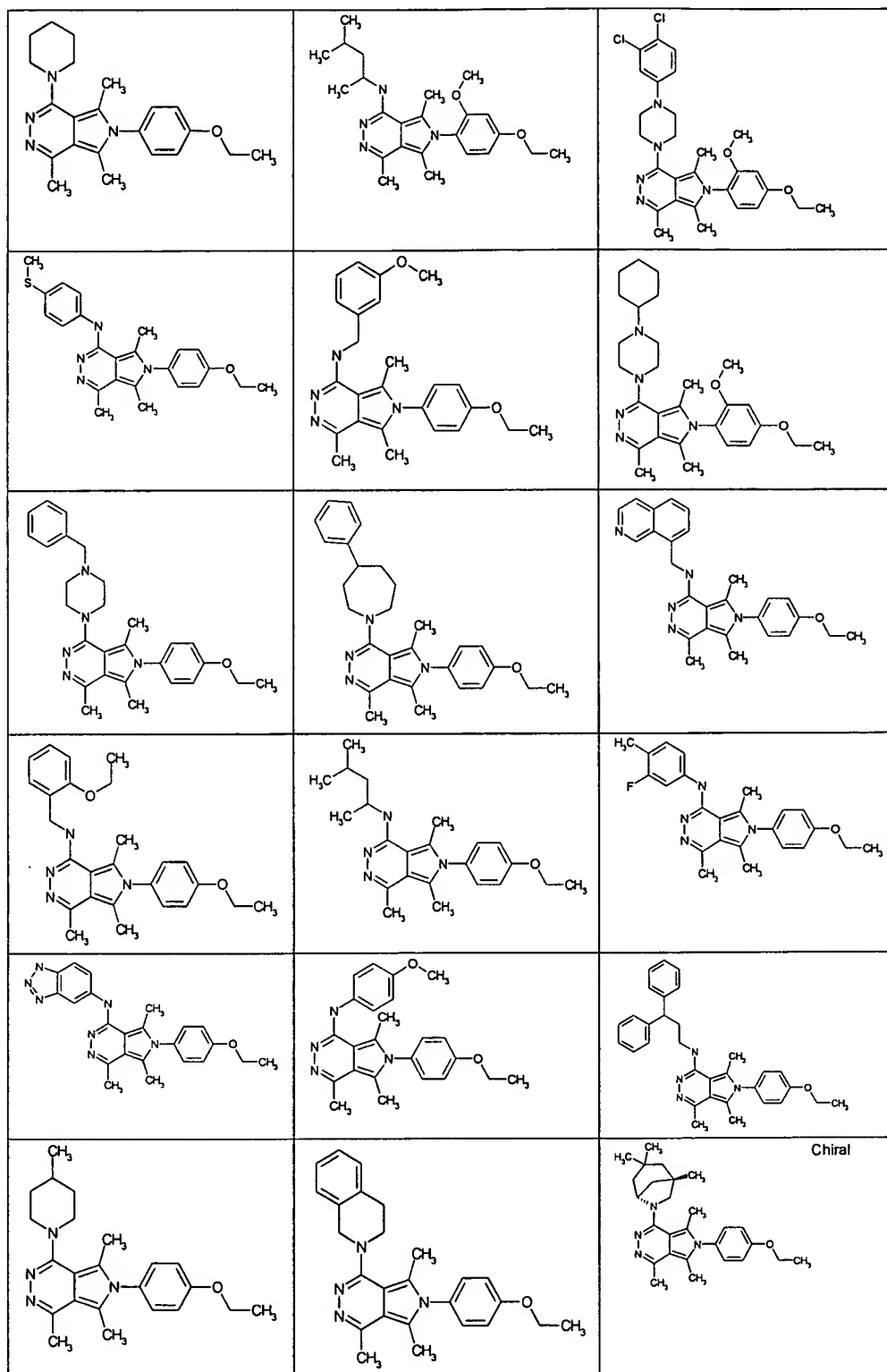


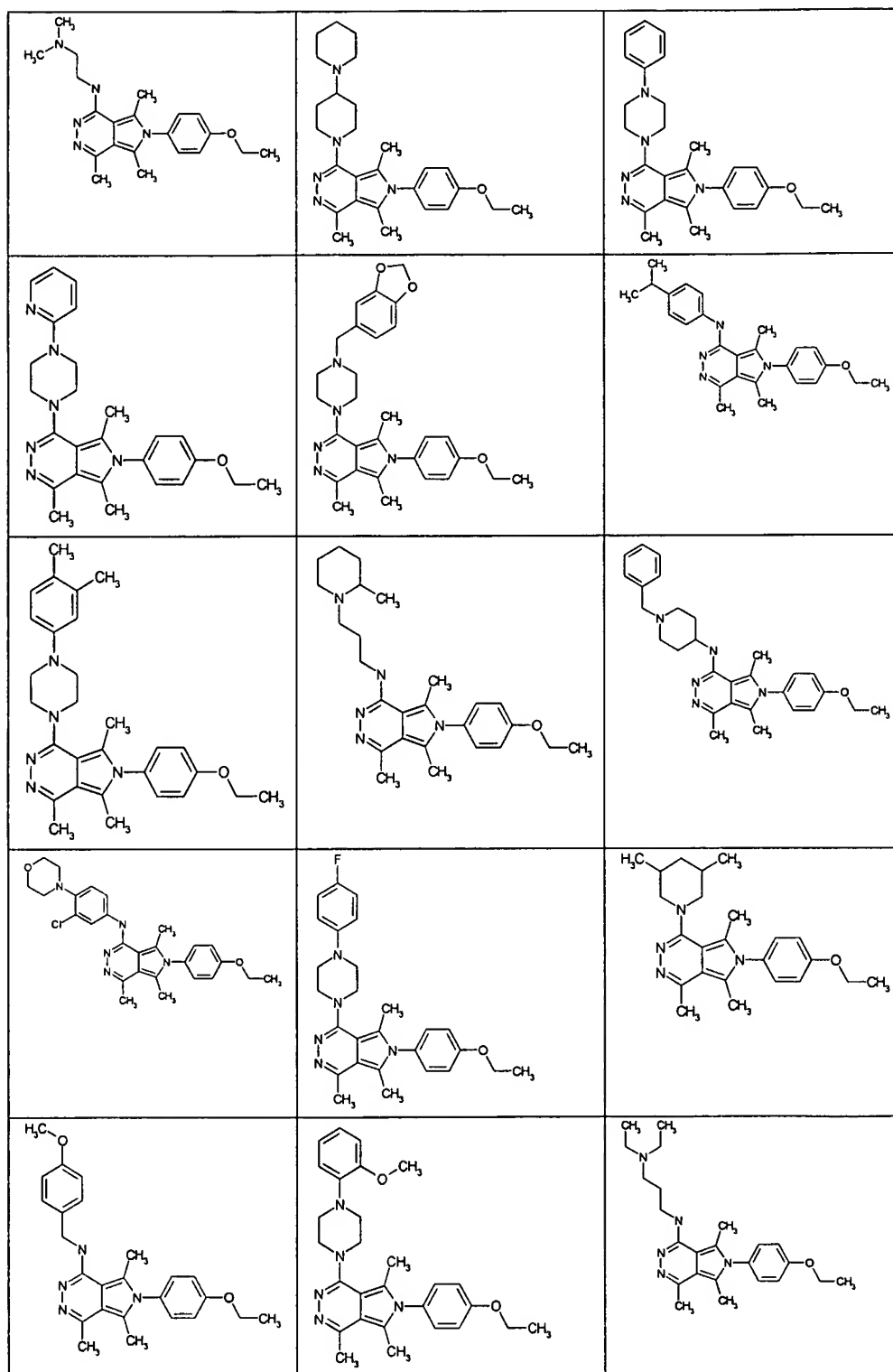


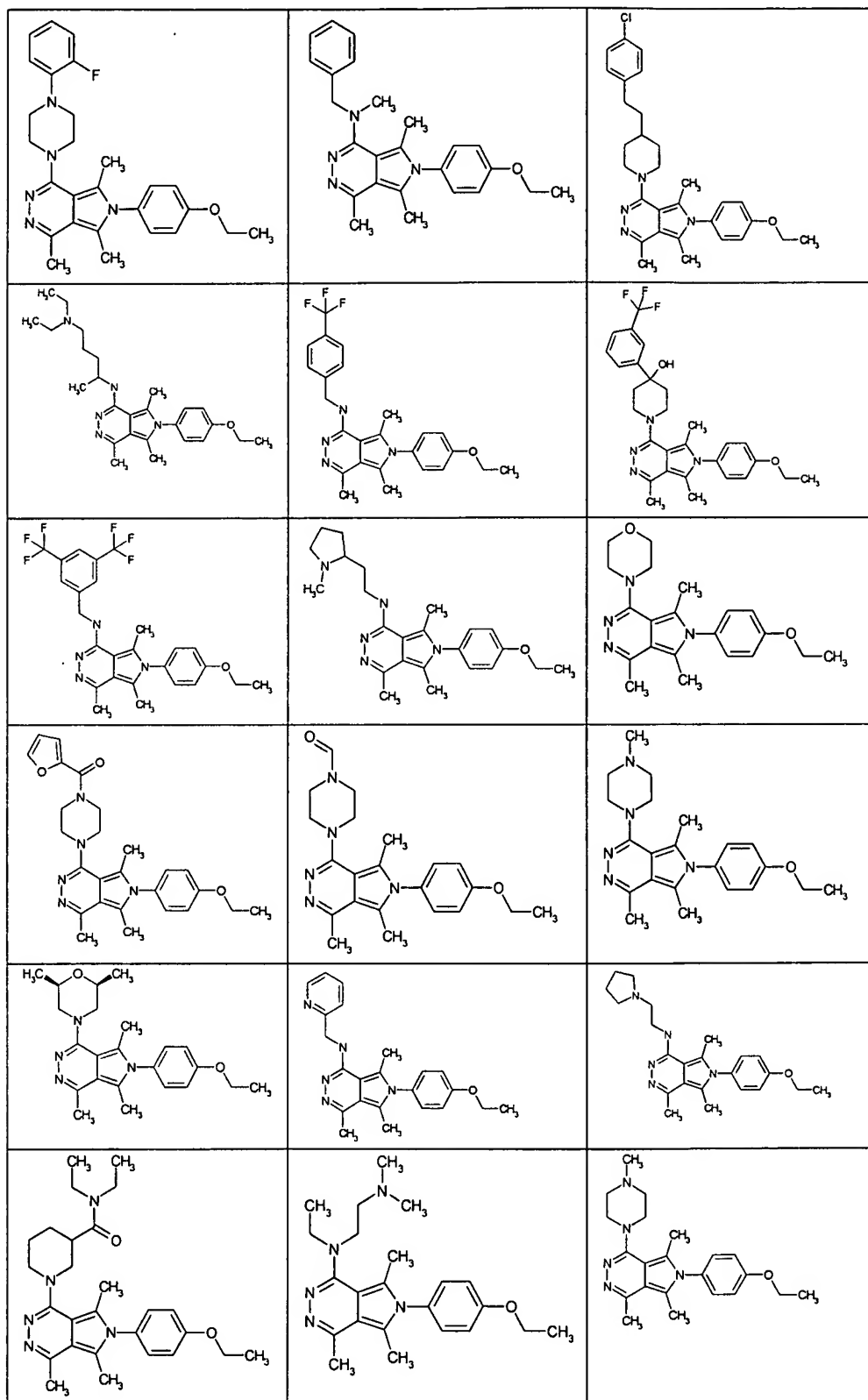


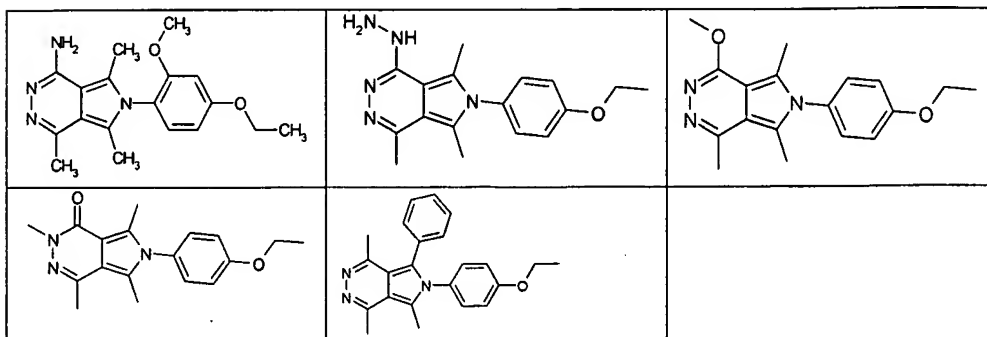






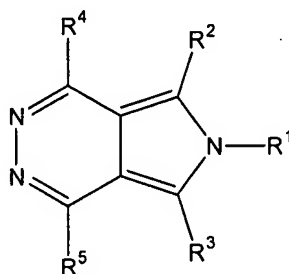






or a pharmaceutically acceptable salt thereof.

26. A compound represented by Formula (I):



(I)

or a pharmaceutically acceptable salt thereof, wherein

R¹ is -C₀-6alkyl-aryl, -C₀-6alkyl-heteroaryl, -C₀-6alkyl-C₃-6cycloalkyl, or -C₀-6alkyl-heteroC₃-7cycloalkyl, optionally substituted with 1-6 independent halogen, -CN, NO₂, -C₁-6alkyl, -C₀-6alkyl-C₃-6cycloalkyl, -C₀-6alkyl-heteroC₃-7cycloalkyl, -OR⁶, -NR⁶R⁷, -C(=NR⁶)NR⁷R⁸, -N(-NR⁸R⁶)NR⁷R⁸, -NR⁶COR⁷, -NR⁶CO₂R⁷, -NR⁶SO₂R⁸, -NR⁶CONR⁷R⁸, -SR⁸, -SOR⁸, -SO₂R⁸, -SO₂NR⁶R⁷, -COR⁶, -CO₂R⁶, -CONR⁶R⁷, -C(=NR⁶)R⁷, or -C(=NOR⁶)R⁷ substituents;

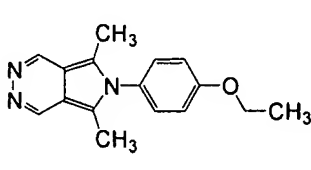
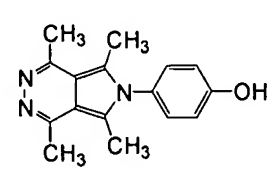
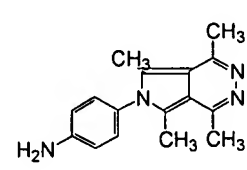
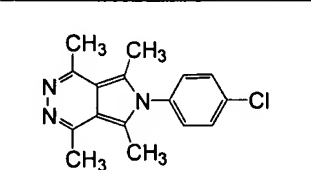
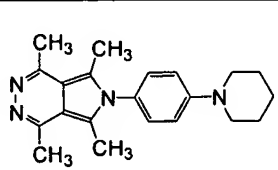
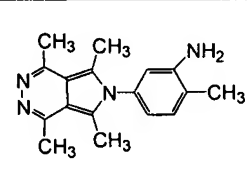
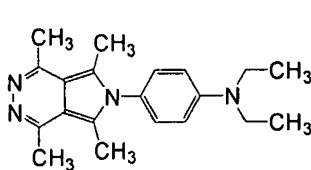
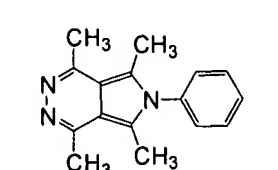
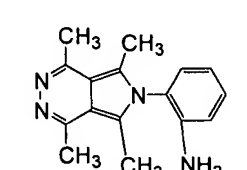
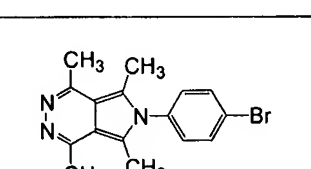
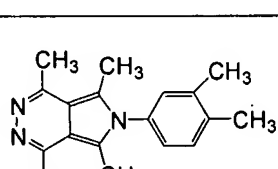
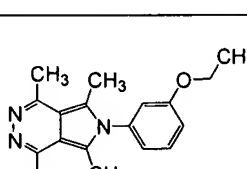
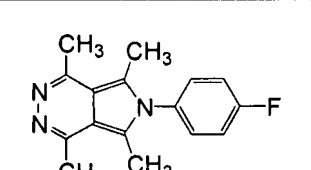
R², R⁴, R³, and R⁵ each independently is -C₀-6alkyl, -C₀-6alkyl-aryl, -C₀-6alkyl-heteroaryl, -C₀-6alkyl-C₃-6cycloalkyl, or -C₀-6alkyl-heteroC₃-7cycloalkyl, optionally substituted with 1-6 independent halogen, -CN, NO₂, -C₁-6alkyl, -OR⁶, -NR⁶R⁷, -C(=NR⁶)NR⁷R⁸, -N(-NR⁸R⁶)NR⁷R⁸, -NR⁶COR⁷, -NR⁶CO₂R⁷, -NR⁶SO₂R⁸, -NR⁶CONR⁷R⁸, -SR⁸, -SOR⁸, -SO₂R⁸, -SO₂NR⁶R⁷, -COR⁶, -CO₂R⁶, -CONR⁶R⁷, -C(=NR⁶)R⁷, or -C(=NOR⁶)R⁷ substituents; and

R⁶, R⁷, R⁸, and R⁸ each independently is -C₀-6alkyl, -C₃-7cycloalkyl, heteroaryl, or aryl; optionally substituted with 1-5 independent halogen, -CN, -C₁-6alkyl, -

O(C₀₋₆alkyl), -O(C₃₋₇cycloalkyl), -O(aryl), -N(C₀₋₆alkyl)(C₀₋₆alkyl), -N(C₀₋₆alkyl)(C₃₋₇cycloalkyl), or -N(C₀₋₆alkyl)(aryl) substituents, wherein when the carbon atom in -C₀₋₆alkyl equals "0" then no alkyl is present; provided that the compound is not

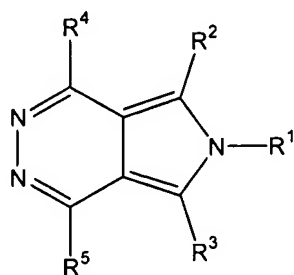
6-methyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4,5,7-tetramethyl-6-phenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4,5-trimethyl-6,7-diphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
5,7-dimethyl-1,4,6-triphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
5-methyl-1,4,6,7-tetraphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4-bis-(4-methoxy-phenyl)-5,7-dimethyl-6-phenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4-bis-(4-methoxy-phenyl)-5-methyl-6,7-diphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4-diethyl-5,7-dimethyl-6-phenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4,5,7-tetramethyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
N-(1,4,5,7-tetramethyl-pyrrolo[3,4-*d*]pyridazin-6-yl)-benzamide,
1,4,5,7-tetramethyl-pyrrolo[3,4-*d*]pyridazin-6-ylamine picrate,
1,4,5,7-tetramethyl-pyrrolo[3,4-*d*]pyridazin-6-ylamine,
5,7-dimethyl-6-phenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
5,7-dimethyl-2-phenacyl-6*H*-pyrrolo[3,4-*d*]pyridazinium bromide,
2-(2-methoxycarbonylvinyl)-5,7-dimethyl-6*H*-pyrrolo[3,4-*d*]pyridazinium tetrafluoroborate
5,7-diphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
5,6,7-trimethyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4-diphenyl-7,8,9,10-tetrahydro-pyridazino[4,5-*a*]indolizine,
5-methyl-1,4-diphenyl-7,8,9,10-tetrahydro-pyridazino[4,5-*a*]indolizine,
6-benzyl-1,4-diphenyl-5-*p*-tolyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
6-benzyl-5-(2-chloro-phenyl)-1,4-diphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4,5,6,7-pentaphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
6,7,10,11-tetraphenyl-pyridazino[4',5':3,4]pyrrolo[1,2-*a*]quinoxaline,
11-(4-nitro-phenyl)-6,7,10-triphenyl-pyridazino[4'.5':3,4]pyrrolo[1,2-*a*]quinoxaline,
6-benzyl-1,4,5-triphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
9,12-diphenyl-pyridazino[4',5':3,4]pyrrolo[2,1-*a*]isoquinoline,
5-methylsulfonyl-1,4,6,7-tetraphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1,4,6,7-tetraphenyl-6*H*-pyrrolo[3,4-*d*]pyridazine-5-carboxylic acid ethyl ester,
7,10-diphenyl-pyridazino[4',5':3,4]pyrrolo[1,2-*a*]quinoline,

1,1,14-diphenyl-pyridazino[4',5':3,4]pyrrolo[1,2-*f*]phenanthridine,
1-oxo-7-oxy-6b,11b-dihydro(pyridazino[4',5'-*c*]-pyrrolo)[2.1-*c*]benzoxazine-
1,4,
10-methyl-1,4-diphenyl-8,9-dihydro-7H-benzo(*ef*)pyridazino[4,5-
a]cycl[3.3.2]azine,
11-methyl-1,4-diphenyl-7,8,9,10-tetrahydrocyclohepta(*ef*)pyridazino[4,5-
a]cycl[3.3.2]azine,
1,4-dichloro-5,6,7-trimethyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1-chloro-4-ethoxy-5,6,7-trimethyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
1-chloro-5,6,7-trimethyl-6*H*-pyrrolo[3,4-*d*]pyridazinium chloride,
1-ethoxy-2,5,6,7-tetramethyl-6*H*-pyrrolo[3,4-*d*]pyridazinium
tetrafluoroborate,
1-ethoxy-5,6,7-trimethyl-2*H*,6*H*-pyrrolo[3,4-*d*]pyridazinium tetrafluoroborate,
1-ethoxy-3-ethyl-5,6,7-trimethyl-6*H*-pyrrolo[3,4-*d*]pyridazinium
tetrafluoroborate,
1-ethoxy-5,6,7-trimethyl-6*H*-pyrrolo[3,4-*d*]pyridazine,
5-cyano-1,4-dimethylpyridazino[4,5-*a*]indolizine,
1,4-dimethyl-6-phenyl-2,3,8a-triaza-fluorene-9-carbonitrile,
6-benzoyl-1,4-dimethyl-2,3,8a-triaza-fluorene-9-carbonitrile,
6-benzyl-1,4-diphenyl-2,3,8a-triaza-fluorene-9-carbonitrile,
1,4,6-trimethyl-2,3,8a-triaza-fluorene-9-carbonitrile,
5-cyano-1,4-diphenylpyridazino[4,5-*a*]indolizine,
6-methyl-1,4-diphenyl-2,3,8a-triaza-fluorene-9-carbonitrile,
6-benzoyl-1,4-diphenyl-2,3,8a-triaza-fluorene-9-carbonitrile,
1,4,6-triphenyl-2,3,8a-triaza-fluorene-9-carbonitrile,
5,7-dimethyl-1,4-diphenyl-2,3,8a-triaza-fluorene-9-carbonitrile,
9,12-diphenyl-pyridazino[4',5':3,4]pyrrolo[2,1-*a*]isoquinoline-8-carbonitrile,
dimethyl 3,12,13,17-tetramethyl-7²,7³-diazabenzog[*g*]porphyrin-2,18-
dipropionate,
5,6-dihydro-2,3-dimethoxypyridazino[4',5':3,4]pyrrolo[2,1-*a*]isochinolin-9-
ol,
5,6-dihydro-2,3-dimethoxypyridazino[4',5':3,4]pyrrolo[2,1-*a*]isochinolin-9-
ol-hydrochloride,
3-methyl-6,9-diphenylthiazolo[3',2':1,2]pyrrolo[3,4-*d*]pyridine, or
1,4-diphenylpyridazino[4',5':3,4]pyrrolo[2,1-*b*]benzothiazole; and
is not selected from the following table:

Amended Claims possibly to be rejoined:

1(Currently Amended). A method of binding the $\alpha 2\delta$ subunit of voltage gated calcium channels comprising a step of administering an effective amount of a compound represented by Formula (I):



(I)

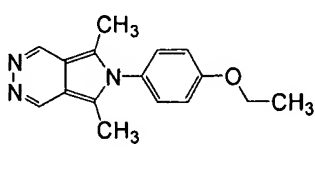
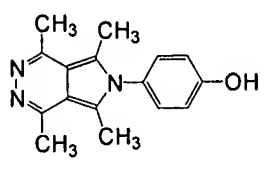
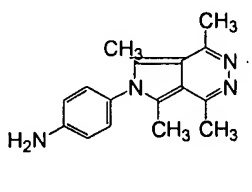
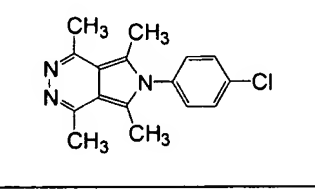
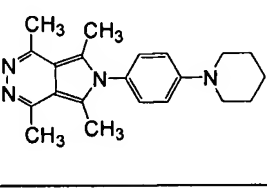
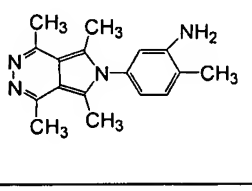
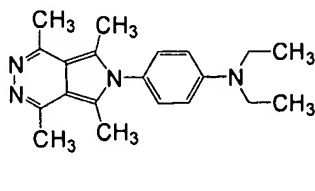
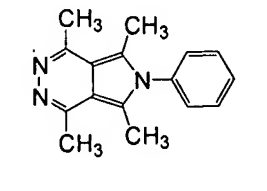
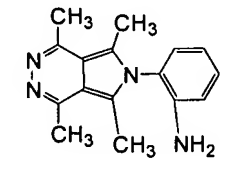
or a pharmaceutically acceptable salt thereof, wherein

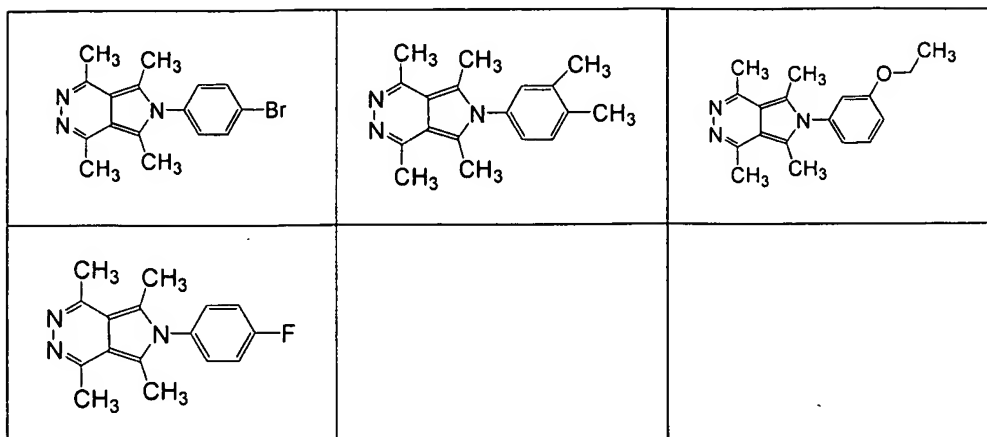
R¹ is -C₀₋₆alkyl-aryl, -C₀₋₆alkyl-heteroaryl, -C₀₋₆alkyl-C₃₋₆cycloalkyl, or -C₀₋₆alkyl-heteroC₃₋₇cycloalkyl, optionally substituted with 1-6 independent halogen, -CN, NO₂, -C₁₋₆alkyl, -C₀₋₆alkyl-C₃₋₆cycloalkyl, -C₀₋₆alkyl-heteroC₃₋₇cycloalkyl, -OR⁶, -NR⁶R⁷, -C(=NR⁶)NR⁷R⁸, -N(-NR⁸⁸R⁶)NR⁷R⁸, -NR⁶COR⁷, -NR⁶CO₂R⁷, -NR⁶SO₂R⁸⁸, -NR⁶CONR⁷R⁸, -SR⁸⁸, -SOR⁸⁸, -SO₂R⁸⁸, -SO₂NR⁶R⁷, -COR⁶, -CO₂R⁶, -CONR⁶R⁷, -C(=NR⁶)R⁷, or -C(=NOR⁶)R⁷ substituents;

R², R⁴, R³, and R⁵ each independently is -C₀₋₆alkyl, -C₀₋₆alkyl-aryl, -C₀₋₆alkyl-heteroaryl, -C₀₋₆alkyl-C₃₋₆cycloalkyl, or -C₀₋₆alkyl-heteroC₃₋₇cycloalkyl, optionally substituted with 1-6 independent halogen, -CN, NO₂, -C₁₋₆alkyl, -OR⁶, -NR⁶R⁷, -C(=NR⁶)NR⁷R⁸, -N(-NR⁸⁸R⁶)NR⁷R⁸, -NR⁶COR⁷, -NR⁶CO₂R⁷, -NR⁶SO₂R⁸⁸, -NR⁶CONR⁷R⁸, -SR⁸⁸, -SOR⁸⁸, -SO₂R⁸⁸, -SO₂NR⁶R⁷, -COR⁶, -CO₂R⁶, -CONR⁶R⁷, -C(=NR⁶)R⁷, or -C(=NOR⁶)R⁷ substituents; and

R⁶, R⁷, R⁸, and R⁸⁸ each independently is -C₀₋₆alkyl, -C₃₋₇cycloalkyl, heteroaryl, or aryl; optionally substituted with 1-5 independent halogen, -CN, -C₁₋₆alkyl, -O(C₀₋₆alkyl), -O(C₃₋₇cycloalkyl), -O(aryl), -N(C₀₋₆alkyl)(C₀₋₆alkyl), -N(C₀₋₆alkyl)(C₃₋₇cycloalkyl), or -N(C₀₋₆alkyl)(aryl) substituents, wherein when the carbon atom in -C₀₋₆alkyl equals "0" then no alkyl is present; and

provided that the compound is not selected from the following table:



2(Currently Amended). The method according to Claim 1, wherein R¹ is – C₀-6alkyl-aryl.

3(Currently Amended). The method according to Claim 2, wherein R¹ is – C₀-6alkyl-phenyl.

5(Original). A method of treatment of neuropathic pain comprising a step of administering an effective amount of a pharmaceutical composition comprising: a therapeutically effective amount of the compound according to claim 1, or a pharmaceutically acceptable salt thereof; and a pharmaceutically acceptable carrier.

6(Original). The method according to claim 5, wherein said composition further comprising i) an opiate agonist, ii) an opiate antagonist, iii) an mGluR5 antagonist, iv) a 5HT receptor agonist, v) a 5HT receptor antagonist, vi) a sodium channel antagonist, vii) an NMDA receptor agonist, viii) an NMDA receptor antagonist, ix) a COX-2 selective inhibitor, x) an NK1 antagonist, xi) a non-steroidal anti-inflammatory drug, xii) a GABA-A receptor modulator, xiii) a dopamine agonist, xiv) a dopamine antagonist, xv) a selective serotonin reuptake inhibitor, xvi) a tricyclic antidepressant drug, xvii) a norepinephrine modulator, xviii) L-DOPA, xix) buspirone, xx) a lithium salt, xxi) valproate, xxii) neurontin, xxiii) olanzapine, xxiv) a nicotinic agonist, xxv) a nicotinic antagonist, xxvi) a muscarinic agonist, xxvii) a muscarinic antagonist, xxviii) a selective serotonin and norepinephrine reuptake inhibitor (SSNRI), xxix) a heroin substituting drug, xxx) disulfiram, or xxxi) acamprosate.

7(Original). The method according to claim 6, wherein said heroin substituting drug is methadone, levo-alpha-acetylmethadol, buprenorphine or naltrexone.

8(Currently Amended). A method of treatment ~~or prevention~~ of pain comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

9(Currently Amended). A method of treatment ~~or prevention~~ of a pain disorder wherein said pain disorder is acute pain, persistent pain, chronic pain, inflammatory pain, or neuropathic pain, comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

10(Currently Amended). A method of treatment ~~or prevention~~ of anxiety, depression, bipolar disorder, psychosis, drug withdrawal, tobacco withdrawal, memory loss, cognitive impairment, dementia, Alzheimer's disease, schizophrenia or panic comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

11(Currently Amended). A method of treatment ~~or prevention~~ of disorders of extrapyramidal motor function comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

12(Original). The method of claim 11 wherein said disorder of extrapyramidal motor function is Parkinson's disease, progressive supramuscular palsy, Huntington's disease, Gilles de la Tourette syndrome, or tardive dyskinesia.

13(Currently Amended). A method of treatment ~~or prevention~~ of anxiety disorders comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

14(Original). The method of claim 13 wherein said anxiety disorder is panic attack, agoraphobia or specific phobias, obsessive-compulsive disorders, post-traumatic stress disorder, acute stress disorder, generalized anxiety disorder, eating disorder, substance-induced anxiety disorder, or nonspecified anxiety disorder.

15(Currently Amended). A method of treatment ~~or prevention~~ of neuropathic pain comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

16(Currently Amended). A method of treatment ~~or prevention~~ of Parkinson's Disease comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

17(Currently Amended). A method of treatment ~~or prevention~~ of depression comprising the step of administering a therapeutically effective amount, or a prophylactically

effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

18(Currently Amended). A method of treatment ~~or prevention~~ of epilepsy comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

19(Currently Amended). A method of treatment ~~or prevention~~ of inflammatory pain comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

20(Currently Amended). A method of treatment ~~or prevention~~ of cognitive dysfunction comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

21(Currently Amended). A method of treatment ~~or prevention~~ of drug addiction, drug abuse and drug withdrawal comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

22(Currently Amended). A method of treatment ~~or prevention~~ of bipolar disorders comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

23(Currently Amended). A method of treatment ~~or prevention~~ of circadian rhythm and sleep disorders comprising the step of administering a therapeutically effective amount, or a prophylactically effective amount, of the compound according to claim 1 or a pharmaceutically acceptable salt thereof.

24(Original). The method of Claim 23 wherein the circadian rhythm and sleep disorders are shift-work induced sleep disorder or jet-lag.